

February 9, 2004

State of Utah
Division of Oil, Gas & Mining
Attn: Diana Whitney
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: Federal 1-4-9-18, 7-4-9-18, 9-4-9-18, and 15-4-9-18.

Dear Diana:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Brad or myself a call.

Sincerely.

Mandie Crozier

Regulatory Specialist

mc

enclosures

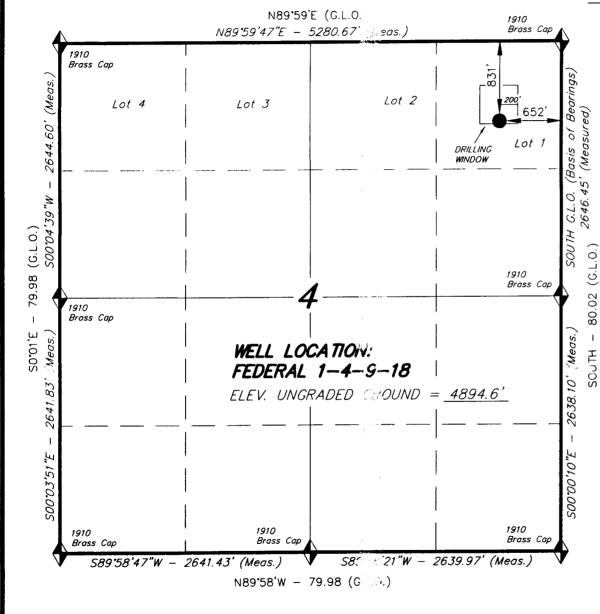
RECEIVED
FEB 1 0 2004

DIV. OF OIL, GAS & MINING

Form 3160-3 (September 2001)				FORM APPR OMB No. 100 Expires January	04-0136
UNITED STATES			<u> </u>		31, 2004
DEPARTMENT OF THE IN				5. Lease Serial No. U-16539	
BUREAU OF LAND MANAC	GEMENT		-	6. If Indian, Allottee or Tribe Name	
APPLICATION FOR PERMIT TO DE	RILL OR REEI	NTER			Tribe Name
				N/A	
1a. Type of Work: DRILL REENTER	₹			7. If Unit or CA Agreeme	ent, Name and No.
			_	N/A	
1b. Type of Well: (3) Oil Well (1) Gas Well (1) Other	Single	Zone 🖵 Multip	ole Zone	8. Lease Name and Well Federal 1-4-9-18	
Name of Operator Inland Production Company	4			9. API Well No. 43-04	1-35473
3a. Address	3b. Phone No. (in	clude area code)		10. Field and Pool, or Exp	
Route #3 Box 3630, Myton UT 84052	(435) 646-3	372:1		Eight Mile Flat	•
4. Location of Well (Report location clearly and in accordance with	<u> </u>	`		11. Sec., T., R., M., or Blk	and Survey or Area
At surface NE/NE 831' FNL 652' FEL 4435343		6492		NE/NE Sec. 4, T	9S R18E
14. Distance in miles and direction from nearest town or post office*	/ 10 11			12. County or Parish	13. State
Approximatley 21.2 miles southeast of Myton, Utah				Uintah	UT
15. Distance from proposed* location to nearest	16. No. of Acres	s in lease	17. Spacing	g Unit dedicated to this well	
property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 489' f/lse, NA f/unit	1520.3	32		Approx. 40 Acres	
18. Distance from proposed location*	19. Proposed De	epth	20. BLM/B	/BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 5932'	6500'		#4	488944	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate	e date work will sta	rt*	23. Estimated duration	
4895' GL	2nd Quart	er 2004		Approximately seven (7) days from	spud to rig release.
	24. Attachn	nents			
The following, completed in accordance with the requirements of Onsho	re Oil and Gas Ord	er No.1, shall be at	tached to this	form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	Lands the 5	Item 20 above). Operator certific	ation. specific info	s unless covered by an exi	-
25. Signature		inted/Typed) Crozier		Da	
Title lanche Comment)	Cloziei		i ⁽	W/4/04
Regulatory Specialist	•			1	
The William William Street	14atile (1 /	inted/Typed) BRADLEY	G. HII	L E	2-12-04
Title	Offenv	IRONMENTAI	LSCIENT	ist III	•
Application approval does not warrant or certify the the applicant holds I operations thereon. Conditions of approval, if any, are attached.	egal or equitable ti	tle to those rights in	the subject l	ease which would entitle th	e applicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as t			nd willfully to	o make to any department o	or agency of the United
*(Instructions on reverse)				Dro	

RECEIVED
FEB 1 0 2004
DIV. OF OIL, GAS & MINING

T9S, R18E, S. B.&M.



lack

= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUal (PARIETTE DRAW SW)

INLAND PRODUCTION COMPANY

WELL LOCATION, FEDERAL 1-4-9-18. LOCATED AS SHOWN IN LOT 1 OF SECTION 4, T9S, R18E, S.L.B.&M. UINTAH COUNTY, UTAH.



TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501

` '	
SCALE: 1" = 1000'	SURVEYED BY: K.G.S.
DATE: 10-10-03	DRAWN BY: J.R.S.
NOTES:	FILE #

INLAND PRODUCTION COMPANY FEDERAL #1-4-9-18 NE/NE SECTION 4, T9S, R18E UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. <u>GEOLOGIC SURFACE FORMATION:</u>

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta 0' - 1640' Green River 1640' Wasatch 6050'

3. <u>ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:</u>

Green River Formation 1640' – 6500' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. <u>TESTING, LOGGING AND CORING PROGRAMS:</u>

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

INLAND PRODUCTION COMPANY FEDERAL #1-4-9-18 NE/NE SECTION 4, T9S, R18E UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Inland Production Company well location site Federal #1-4-9-18 located in the NE 1/4 NE 1/4 Section 4, T9S, R18E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles \pm to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 11.7 miles \pm to it's junction with an existing road to the southeast; proceed southeasterly - 3.6 miles \pm to it's junction with an existing road to the east; proceed northeasterly - 1.7 miles \pm to it's junction with an existing road to the northeast; proceed northeasterly - 2.5 miles \pm to it's junction with the beginning of the proposed access road; proceed northwesterly along the proposed access road 370' \pm to the proposed well location.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. <u>METHODS FOR HANDLING WASTE DISPOSAL</u>

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

See attached Location Layout Diagram.

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #03-154, 2/3/04. Paleontological Resource Survey prepared by, Wade E. Miller, 11/15/03. See attached report cover pages, Exhibit "D".

Inland Production Company requests a 60' ROW for the Federal #1-4-9-18 to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Inland Production Company also requests a 60' ROW be granted for the Federal #1-4-9-18 to allow for construction of a 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Water Disposal

Please refer to the Monument Butte Field SOP.

Reserve Pit Liner

A felt pad and 12 mil liner is required. Please refer to the Monument Butte Field SOP.

Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Gardners SaltbushAtriplex corrugata4 lbs/acreIndian RicegrassOryzopsis hymenoides4 lbs/acreNeedle & ThreadgrassSitpa comata4 lbs/acre

Details of the On-Site Inspection

The proposed Federal #1-4-9-18 was on-sited on 8/20/03. The following were present; Brad Mecham (Inland Production), Byron Tolman (Bureau of Land Management), and a SWCA representative. Weather conditions were clear.

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Brad Mecham

Address: Route #3 Box 3630

Myton, UT 84052

Telephone:

(435) 646-3721

Certification

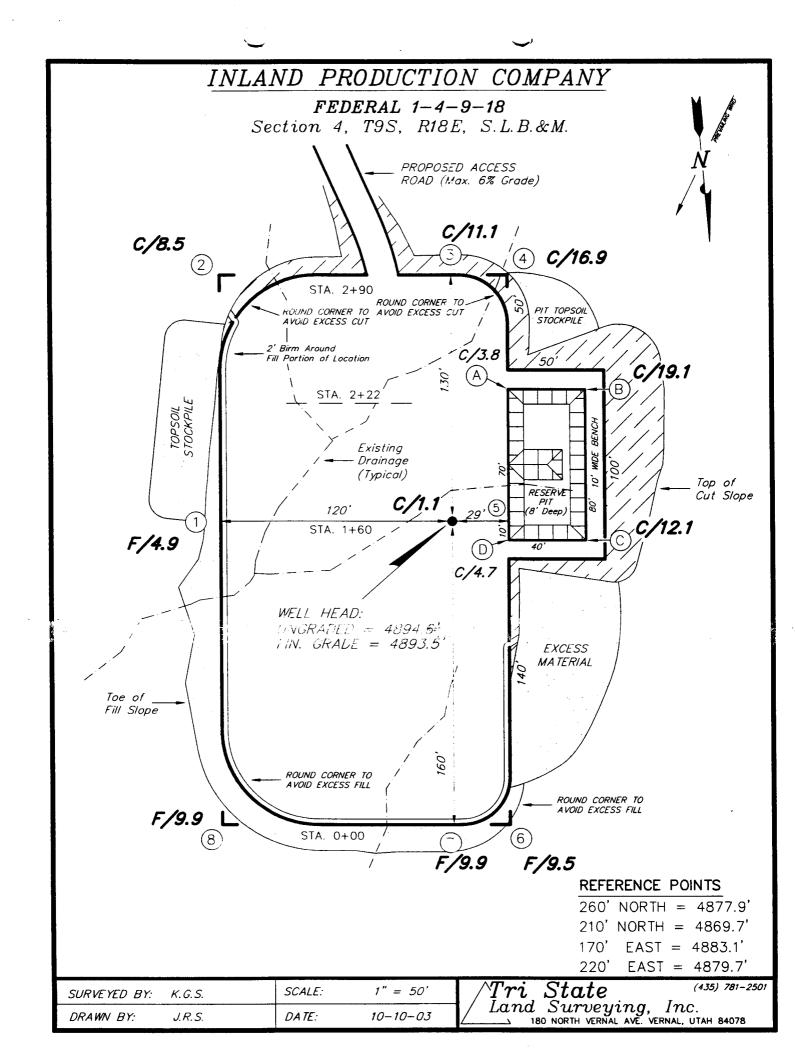
Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #1-4-9-18 NE/NE Section 4, Township 9S, Range 18E: Lease U-16539 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

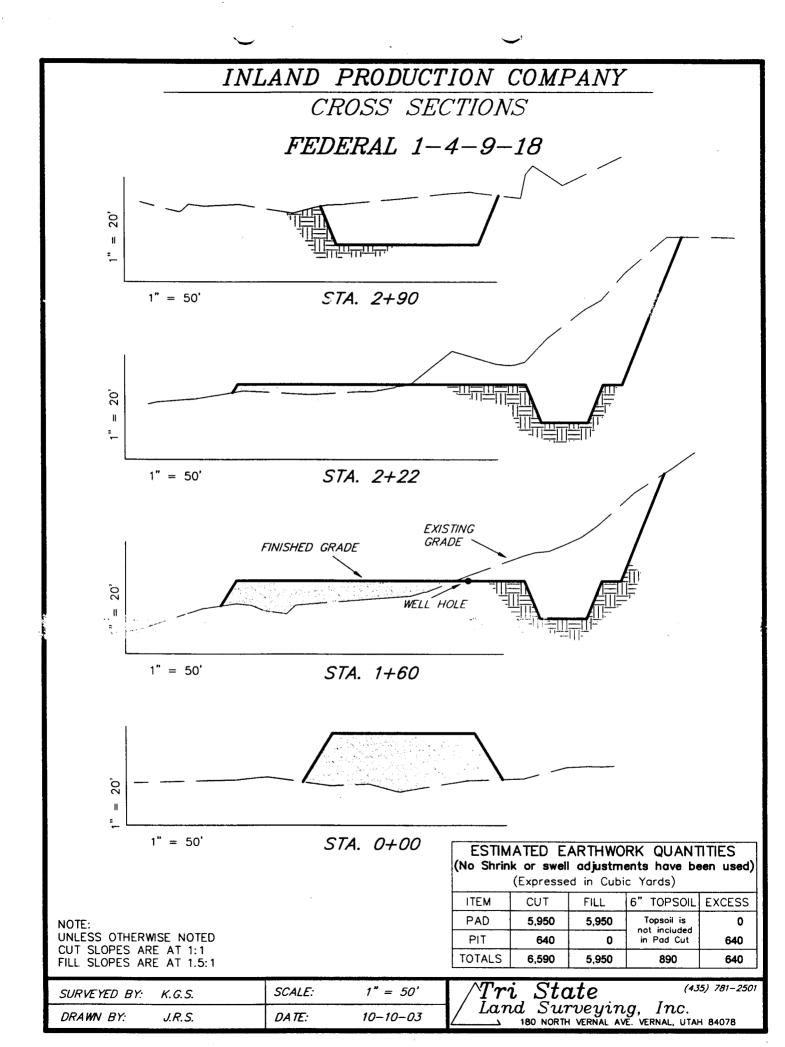
I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filling of a false statement.

Regulatory Specialist

2/9/04

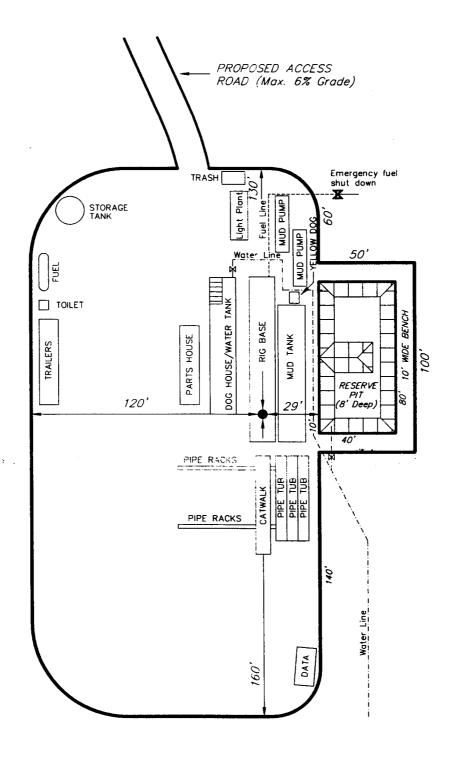
Date



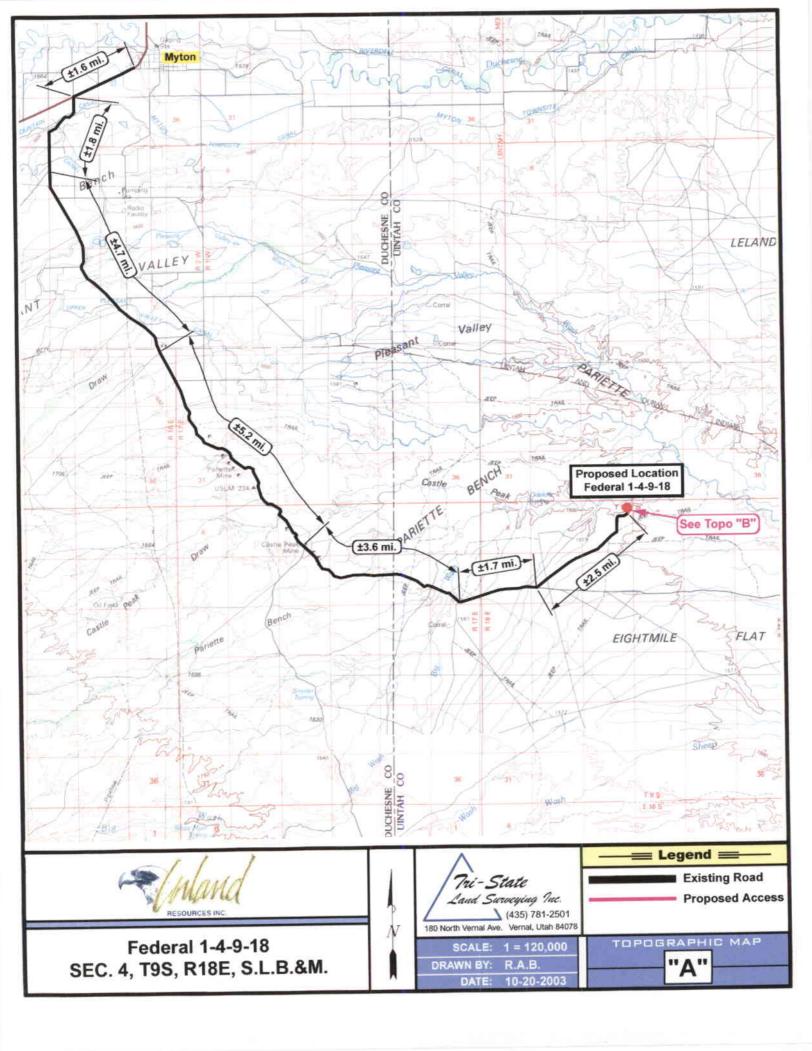


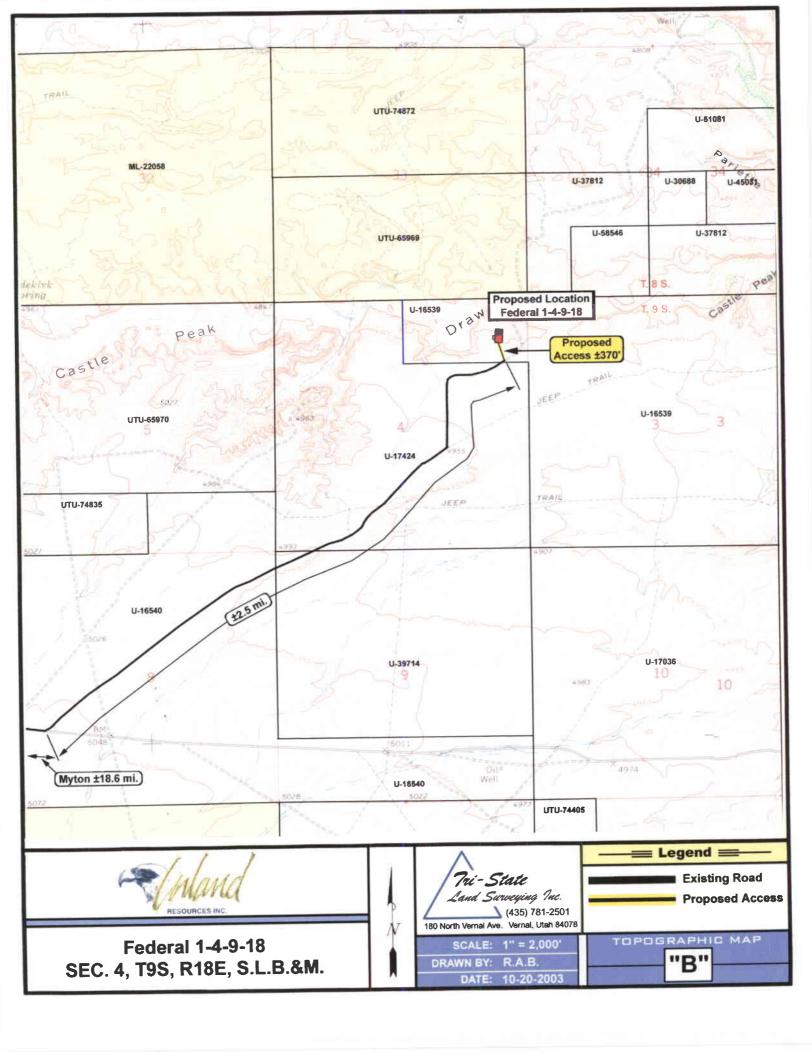
INLAND PRODUCTION COMPANY

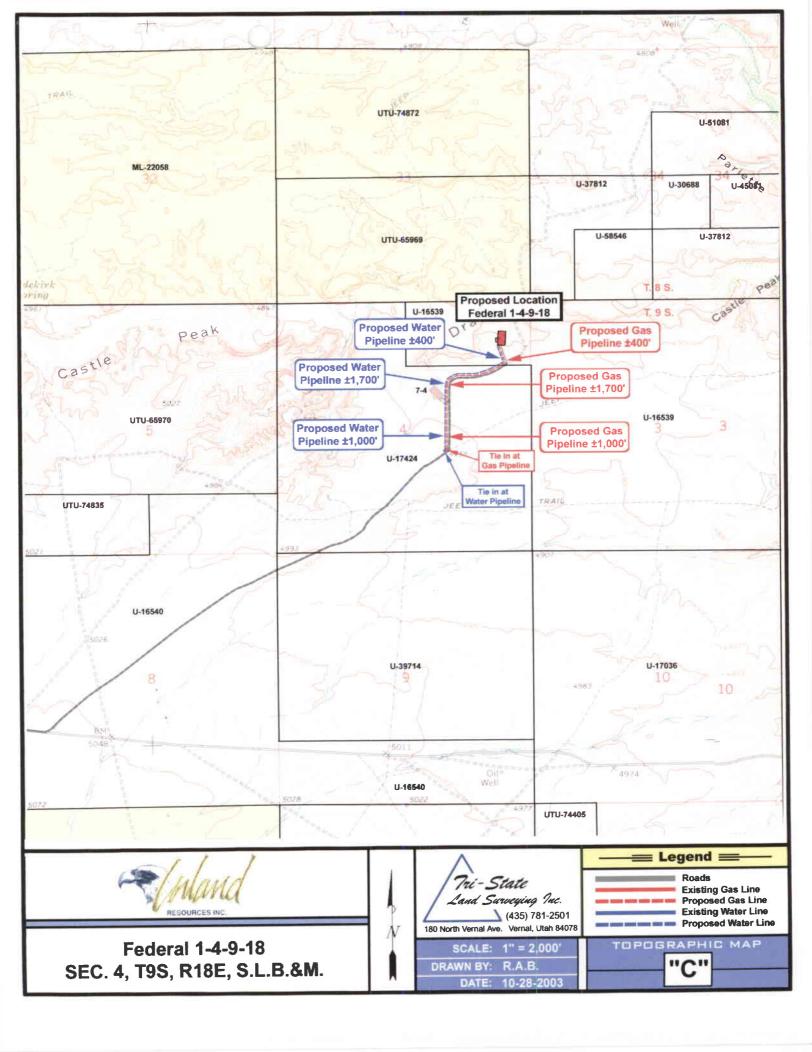
TYPICAL RIG LAYOUT FEDERAL 1-4-9-18

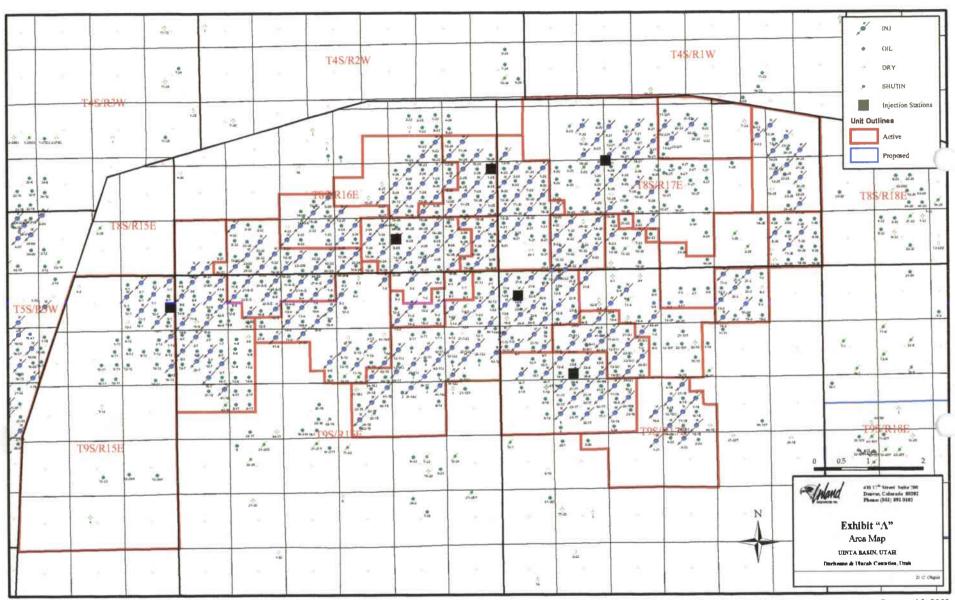


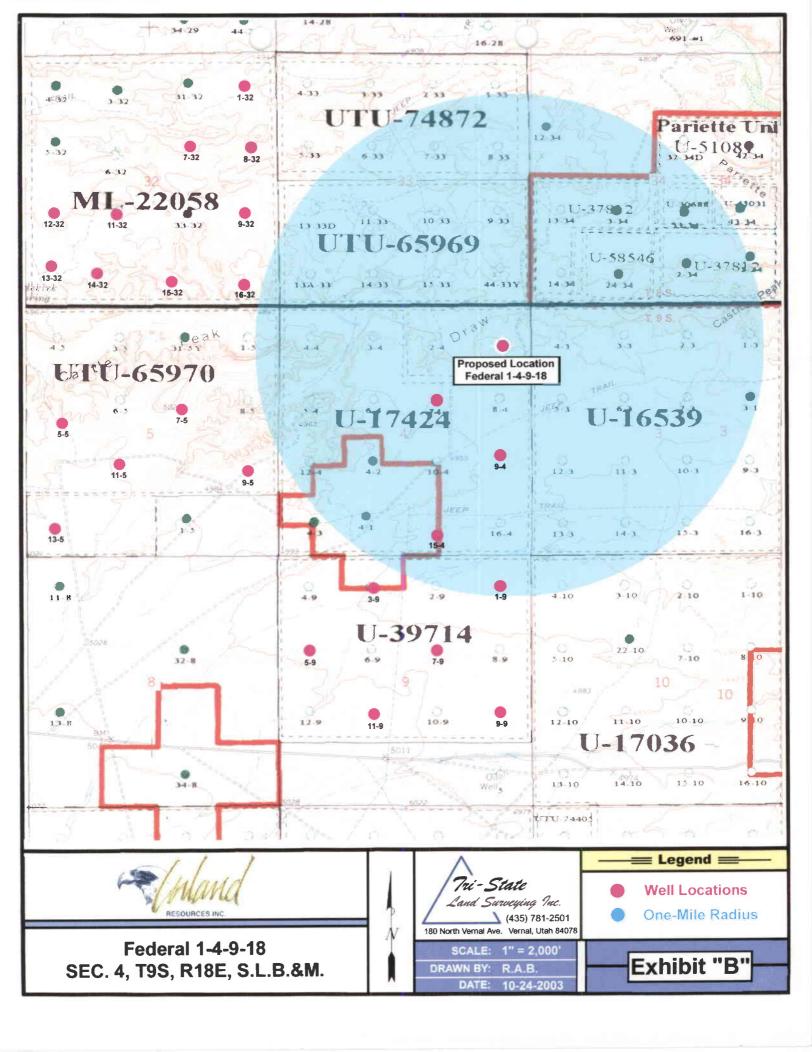
SURVEYED BY:	K.G.S.	SCALE:	1" = 50'	fri_{s} State (435) 781-2501
DRAWN BY:	J.R.S.	DATE:	10-10-03	Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078











2-M SYSTEM

Blowout Prevention Equipment Systems

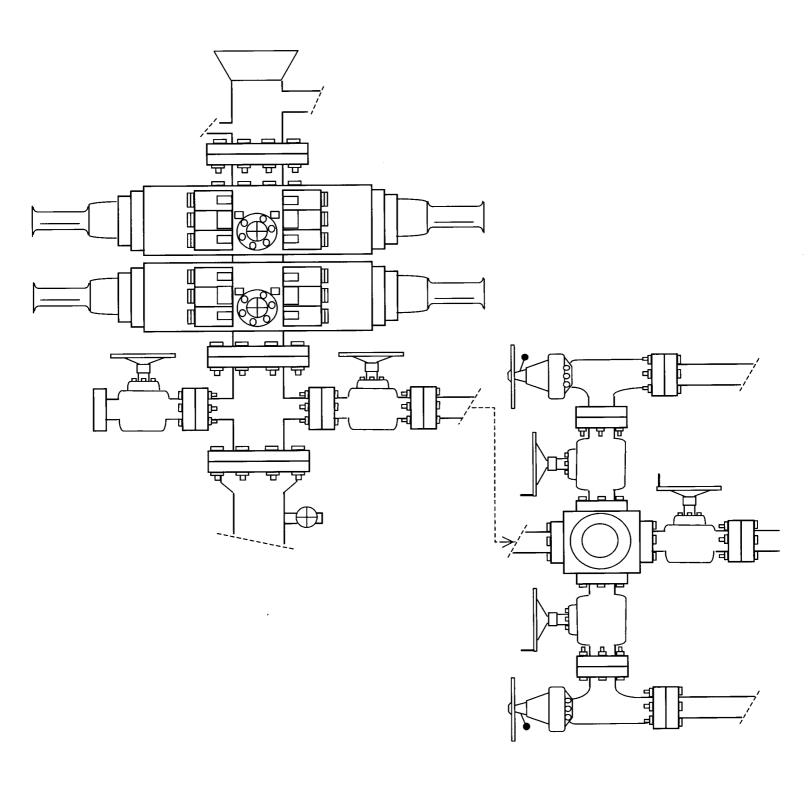


EXHIBIT C

Exhibit"D"

Page 1 of a

CULTURAL RESOURCE INVENTORY OF INLAND PRODUCTIONS PARCEL IN T 8 S, R18 E, SEC. 33 AND T 9 S, R 18 E, SEC. 3 & 4, UINTAH COUNTIES, UTAH

BY:

Katie Simon and Keith R. Montgomery

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

Inland Production Route 3, Box 3630 Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants P.O. Box 147 Moab, Utah 84532

MOAC Report No. 03-154

February 3, 2004

United States Department of Interior (FLPMA)
Permit No. 03-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-03-MQ-0799b

INLAND RESOURCES, INC.

PALEONTOLOGICAL FIELD SURVEY OF PROPOSED PRODUCTION DEVELOPMENT AREAS, UINTAH COUNTY, UTAH

(Sections 3, 4, & 10, T 9 S, R 18 E; Section 7, T 9 S, R 19 E)

REPORT OF SURVEY

Prepared for:

Inland Resources, Inc.

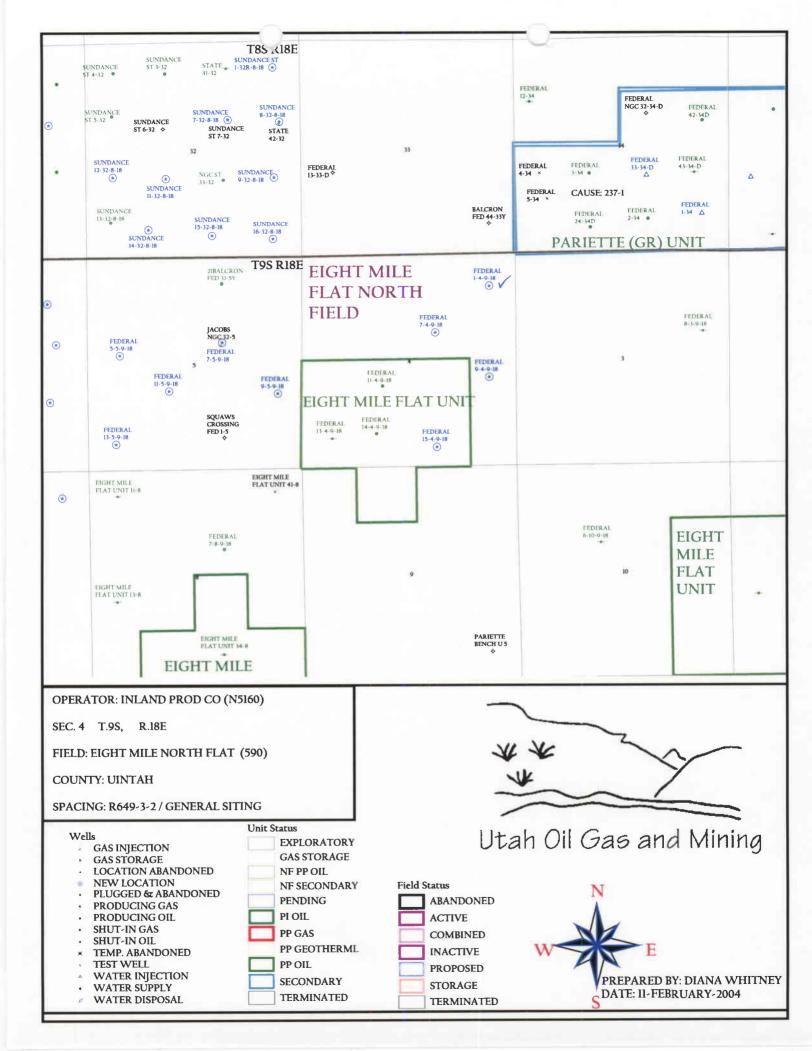
Prepared by:

Wade E. Miller Consulting Paleontologist November 15; 2003

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/10/2004	API NO. ASSIGNED: 43-047-35473
WELL NAME: FEDERAL 1-4-9-18 OPERATOR: INLAND PRODUCTION (N5160) CONTACT: MANDIE CROZIER PROPOSED LOCATION: NENE 04 090S 180E SURFACE: 0831 FNL 0652 FEL BOTTOM: 0831 FNL 0652 FEL UINTAH 8 MILE FLAT NORTH (590) LEASE TYPE: 1 - Federal LEASE NUMBER: U-16539 SURFACE OWNER: 1 - Federal PROPOSED FORMATION: GRRV COALBED METHANE WELL? NO	PHONE NUMBER: 435-646-3721 INSPECT LOCATN BY: / / Tech Review Initials Date Engineering Geology Surface LATITUDE: 40.06492 LONGITUDE: 109.89075
RECEIVED AND/OR REVIEWED: Plat Bond: Fed[1] Ind[] Sta[] Fee[] (No. 4488944) Potash (Y/N) N oil Shale 190-5 (B) or 190-3 or 190-13 Water Permit (No. MUNICIPAL) RDCC Review (Y/N) (Date:) Nil Fee Surf Agreement (Y/N)	LOCATION AND SITING: R649-2-3. Unit
STIPULATIONS: 1- Foder O Approved	





Department of Natural Resources

Division of Oil, Gas & Mining

ROBERT L. MORGAN Executive Director

LOWELL P. BRAXTON Division Director MICHAEL O. LEAVITT Governor

OLENE S. WALKER Lieutenant Governor

February 12, 2004

Inland Production Company Route #3, Box 3630 Myton, UT 84052

Re: Federal 1-4-9-18 Well, 831' FNL, 652' FEL, NE NE, Sec. 4, T. 9 South, R. 18 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-35473.

Sincerely

John R. Baza
Associate Director

pab Enclosures

cc: Uintah County Assessor

Bureau of Land Management, Vernal District Office

Operator:	Inland Production Company	
Well Name & Number	Federal 1-4-9-18	
API Number:	43-047-35473	
Lease:	U-16539	

Conditions of Approval

T. 9 South

R. 18 East

Sec. 4

1. General

Location: NE NE

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

- BLAY VERNAL, UTAH

Form 3160-3 (September 2001)			FORM APPI OMB No. 10 Expires January	04-0136
UNITED STATES DEPARTMENT OF THE IN	TERIOR		5. Lease Serial No.	
BUREAU OF LAND MANAC			U-16539	
APPLICATION FOR PERMIT TO DRILL OR REENTER			6. If Indian, Allottee or Tribe Name N/A	
la. Type of Work: DRILL REENTER	t		7. If Unit or CA Agreem N/A	ent, Name and No.
1b. Type of Well: Oil Well Gas Well Other	Single Zone 🔲 Mult	iple Zone	8. Lease Name and Well Federal 1-4-9-18	
2. Name of Operator Ahland Production Company		. •	9. API Well No. 43.047	35473
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Exploratory	
Route #3 Box 3630, Myton UT 84052	(435) 646-3721		Eight Mile Flat	le and Survey or Are
4. Location of Well (Report location clearly and in accordance with At surface NE/NE 831! FNL 652' FEL Lot 1 At proposed prod. zone				r and survey of Are
 Distance in miles and direction from nearest town or post office* Approximatley 21.2 miles southeast of Myton, Utah 			12. County or Parish Uintah	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 489' f/lse, NA f/unit	16. No. of Acres in lease	17. Spacin	g Unit dedicated to this well Approx. 40 Acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 5932'	19. Proposed Depth		BIA Bond No. on file 4488944 - UTOC	56
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4895' GL	22. Approximate date work will stand Quarter 2004	tart*	23. Estimated duration Approximately seven (7) days from	n spud to rig release.
	24. Attachments			
 The following, completed in accordance with the requirements of Onsho Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	4. Bond to cover Item 20 above) 5. Operator certif	the operation). Teation. e specific inf	s form: ons unless covered by an ex- formation and/or plans as	
25. Signature	Name (Printed/Typed) Mandie Crozier		D	2/9/0 ⁴
Title Regulatory Specialist			ı	
Approsed by (Signaphre)	Name (Printed/Typed)			Date / 26/20
Title Assistant Field Manager Mineral Resources	Office			7 7
Application approval does not warrant or certify the the applicant holds operations thereon.	legal or equitable title to those rights	in the subject	lease which would entitle t	he applicant to cond

*(Instructions on reverse)

NOTICE OF APPROVAL

RECEIVED DEC 0 6 2004



COAs Page 1 of 2 Well No.: Federal 1-4-9-18

CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator:	Newfield Production Company.
Well Name & Number:	Federal 1-4-9-18
API Number:	43-047-35473
Lease Number:	U-16539
Location: <u>Lot 1</u> Se	cc. <u>4</u> T. <u>9S</u> R. <u>18E</u>
Agreement:	N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

Please submit to this office, in LAS format, an electronic copy of all logs run on this well. This submission will replace the requirement for submittal of paper logs to the BLM.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman

(435) 828-7874

Petroleum Engineer

Kirk Fleetwood

(435) 828-7875

Petroleum Engineer

BLM FAX Machine (435) 781-4410

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

No construction or drilling shall be allowed during the golden eagle nesting season (Feb. 1 to July 15), without first consulting the BLM biologist. If the nest is inactive, drilling will be allowed, if the nest is active no drilling will be allowed until the nest becomes inactive.

To reduce noise levels in the area, a hospital muffler or multi-cylinder engine shall be installed on the pumping unit.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company:	INLAND PRO	ODUCTION (COMPANY	
Well Name:	FEDERAL 1	-4-9-18		
Api No: 43-047-354	173 Leas	se Type:	FEDERAL	
Section 04 Townshi	p_ 09S Range_	18E Count	y UINTAH	
Drilling Contractor	NDSI		RIG # <u>NS#1</u>	
SPUDDED: Date	01/21/2005			
Time	3:00 PM			
How	DRY	_		
Drilling will commer	nce:			
Reported by	FLOYD MITCH	ELL		
Telephone #	1-435-823-3610	•		
Date01/24/2005	Signed	СНД		

EØ

STAND STAND

STATE OF UTAH	
DOMESTON OF CHI	GAS AND MININ

ENTITY ACTION FORM -FORM 6

JAN 2 6 2005

TNLAND

ADDRESS: RT. 3 BOX 3630

OPERATOR: NEWPIELD PRODUCTION COMPANY

OPERATOR ACCT. NO.

N5160

N2695

DIV. OF OIL, GAS & MINING

MYTON, UT 84052

ACTION CHRENT API NUMBER WELLANGE WELL LOCATION SPUD C00E ENTITY NO. EFFECTIVE ENTITY NO. QQ 80 TP COUNTY DATE DATE 99999 43-013-32457 Ashley Federal 11-13-9-15 NEJSW 13 98 15E **Duchesne** January 20, 2005 YELL I COMMENTS: ACTION CURRENT HEN API NUMBER WELL NAME WELL LOCATION CODE SPUD ENTITY NO ETECTIVE CHYTTING 03 SC TP RG COUNTY DATE 14533 Α 99999 43-047-35473 Federal 1-4-9-18 NEME 9\$ 18E !Uintah January 21, 2005 WELL 2 COMMENTS: ACTION CURRENT **MBV** API KUMBER WELL NAME WELL LOCATION CODE SPLD ENTRY NO. EFFECTIVE ENTITY NO Qa SC RG COUNTY DATE 99999 43-013-3245R Ashley Federal 10-13-9-15 NW/SE 13 95 15E Duchesne January 25, 2005 WELL 1 COMMENTS: ACTION CURRENT HER API NUMBER WELL NAME WELL LOCATION CODE EKTITY NO. ENTITY NO. SPUD EFFECTIVE 8 90 TP. RG אואריסס DATE DATE 99999 43-047-35594 Federal 10-4 NWISE 98 18E Uintah January 25, 2005 WELL 4 COMMENTS: ACTION CURRENT MEW AP. NUMBER WELL NAME WELL LOCATION CODE SPUD EKTITY NO. ENTITY NO. **EFFECT&** 35646 8 5C RG COUNTY DATE A METT & COMMENTS: T ACTION CODES (See restructions on back of form) A. Establishmen saltly for new well (single well only) B - Add new small be existing onthly (group or unit wall) C - Par-assign med from one endering grattly to another endsting entity Kabbie S. Jones D. Re-analysi well from one existing entity to a sear entity E - Other (explain in commonis section) **Production Clark** January 26, 2005 OTE: Use COLAMENT section to explain any each Action Code seas selected.

01/

FORM 3160-5 (September 2001)

UNITED STATES

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. Lease Serial No.	
UTU16539	
6. If Indian, Allottee or Tribe Name.	 _
_	

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals SUBMIT IN TRIPLICATE - Other Instructions on reverse states. Type of Well	s.
Type of Well	
Type of Well	7. If Unit or CA/Agreement, Name and/or No.
	7. If Unit or CA/Agreement, Name and/or No.
	8. Well Name and No.
Oil Well Gas Well Other Vame of Operator	FEDERAL 1-4-9-18
ewfield Production Company	9. API Well No.
Address Route 3 Box 3630 3b. Phone No. (include ar	
Myton, UT 84052 435.646.3721	10. Field and Pool, or Exploratory Area Monument Butte
ocation of Well (Footage, Sec., T., R., M., or Survey Description)	11. County or Parish, State
831 FNL 652 FEL NE/NE Section 4 T9S R18E	Uintah,UT
12. CHECK APPROPRIATE BOX(ES) TO INIDICATE N	PE OF ACTION
TYPE OF SUBMISSION TYPE	
Acidize Deepen	Production(Start/Resume) Water Shut-Off
Notice of Intent Alter Casing Fracture Treat	Reclamation Well Integrity
Subsequent Report	Recomplete
Change Plans Plug & Abandon	Temporarily Abandon Spud Notice
Final Abandonment Notice Convert to Injector Plug Back Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting	Water Disposal
inspection.) On 01-21-05 MIRU NDSI NS # 1.Spud well @ 3:00 PM. Drill 310' of 12 1/4' csgn. Set @ 313.94'/ KB On 01/24/05 cement with 160 sks of class "G" w/ppg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC.	" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # / 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8
On 01-21-05 MIRU NDSI NS # 1.Spud well @ 3:00 PM. Drill 310' of 12 1/4'	" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # / 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8
On 01-21-05 MIRU NDSI NS # 1.Spud well @ 3:00 PM. Drill 310' of 12 1/4' csgn. Set @ 313.94'/ KB On 01/24/05 cement with 160 sks of class "G" w/ opg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC.	" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # / 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8
On 01-21-05 MIRU NDSI NS # 1.Spud well @ 3:00 PM. Drill 310' of 12 1/4' csgn. Set @ 313.94' KB On 01/24/05 cement with 160 sks of class "G" w/ opg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC. Title arms (Printed/ Typed)	3% CaCL2 + 1/4# Sk Cello- Flake Mixed @ 13.5
On 01-21-05 MIRU NDSI NS # 1.Spud well @ 3:00 PM. Drill 310' of 12 1/4' esgn. Set @ 313.94'/ KB On 01/24/05 cement with 160 sks of class "G" w/ opg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC. Title are (Printed/ Typed) Ployd Mitchell Title Drilling Supers	3% CaCL2 + 1/4# Sk Cello- Flake Mixed @ 13.5
On 01-21-05 MIRU NDSI NS # 1.Spud well @ 3:00 PM. Drill 310' of 12 1/4' csgn. Set @ 313.94' KB On 01/24/05 cement with 160 sks of class "G" w/ opg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC. Title are (Printed/ Typed) To other the foregoing is true and correct are (Printed/ Typed) To other the foregoing is true and correct are (Printed/ Typed) To other the foregoing is true and correct are (Printed/ Typed)	visor
On 01-21-05 MIRU NDSI NS # 1.Spud well @ 3:00 PM. Drill 310' of 12 1/4'csgn. Set @ 313.94' KB On 01/24/05 cement with 160 sks of class "G" w/ppg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC. hereby certify that the foregoing is true and correct ame (Printed Typed) Floyd Mitchell ignature Flora Makey THIS SPACE FOR FEDERAL ORS	visor
On 01-21-05 MiRU NDSI NS # 1.Spud well @ 3:00 PM. Drill 310' of 12 1/4' csgn. Set @ 313.94' KB On 01/24/05 cement with 160 sks of class "G" w/ opg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC. Title printed (Printed Typed) Floyd Mitchell gnature FLA MALL Date 1/25/2005	visor ETATE OFFICE USE Date

FORM 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0135
Expires January 31,2004

BUREAU OF LAND MANAGEMENT

5. Lease Serial No.

	is form for proposals to II. Use Form 3160-3 (AP	6. If Indian, Allotte	6. If Indian, Allottee or Tribe Name.		
SUBMIT IN TR	IPLICATE Other last			7. If Unit or CA/Ag	reement, Name and/or No.
Гуре of Well				0. Mr. II Nome and	No
Oil Well Gas Well	Other			8. Well Name and I FEDERAL 1-4-9	
Name of Operator Newfield Production Company	9. API Well No.				
Address Route 3 Box 3630		3b. Phone No. (include are	code)	4304735473	
Myton, UT 84052_		435.646.3721			or Exploratory Area
ocation of Well (Footage, Sec.	, T., R., M., or Survey Description	on)		Monument Butte	
831 FNL 652 FEL				11. County or Paris	sn, state
NE/NE Section 4 T9S R181	E			Uintah, UT	
12. CHECK	APPROPRIATE BOX(E				HER DATA
TYPE OF SUBMISSION		TYP	E OF ACTIO	N	
Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Reclam		Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Construction	Recom	•	Weekly Status Report
Final Abandonment Notice	Change Plans Convert to Injector	Plug & Abandon Plug Back		orarily Abandon Disposal	Wookiy Status 1997
On 01/31/05 MIRU Patters Test 8.625 csgn to 1,500 p Drill out cement & shoe. Dr Dig/SP/GR log's TD to surf / KB. Cement with 400 sks bbls cement returned to pit	rill a 7.875 hole with fresh face. PU & TIH with Guide	water to a depth of 603 shoe, shoe jt, float coll	0'. Lay dowr lar, 142 jt's o	n drill string & BHA of 5.5 J-55, 15.5# onixed @ 14.4 ppg	a. Open hole log w/ sgn. Set @ 6022.71' & 1.24 yld. With 30
hereby certify that the foregoing	is true and correct	Title			
hereby certify that the foregoing Name (Printed/ Typed) Floyd Mitchell	is true and correct	Title Drilling Super	/isor		
hereby certify that the foregoing Name (Printed/Typed) Floyd Mitchell Signature FOA	m.th.ll	Drilling Supers Date 2/8/2005			
Name (Printed/ Typed) Floyd Mitchell	m.th.ll	Drilling Super-		FICE USE	
Name (Printed/ Typed) Floyd Mitchell	m.th.ll	Drilling Supers Date 2/8/2005	SPACEROIFI		
Name (Printed/ Typed) Floyd Mitchell	THIS SPACE.	Drilling Supers Date 2/8/2005 FOR PED GRAL OR S Titl	SPACE OF 1		ate

FEB 0 9 2305 DIN CHAIL CLESS MINING

FORM 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM A	PPROVED
OMB No.	1004-0135
Expires Janu	uary 31,200

SUNDRY NOTICES AND REPORTS ON WELLS

5.	Lease Se	rial No.	
	UTU1653	9	
6	If Indian	Allottee or Tribe Name	

Do not use this form for proposals to drill or to re-enter all abandoned well. Use Form 3160-3 (APD) for such proposals.					6. If Indian, Allottee or Tribe Name.		
	TRUICATE - Other Instru	ctions on reverse s	đe.	7. If Unit or CA/A	greement, Name and/or No.		
Type of Well				8. Well Name and	No		
Oil Well Gas Well Name of Operator	Other	<u> </u>	,	FEDERAL 1-4-9			
Newfield Production Company				9. API Well No.			
a. Address Route 3 Box 3630	1	b. Phone No. (include ar 35,646,3721	are code) 4304735473 10. Field and Pool, or Exploratory Area				
Myton, UT 84052	., T., R., M., or Survey Description)	33.040.3721		Monument Butte			
831 FNL 652 FEL	,, 1,, 1,, 1,, 1,, 1,, 1,, 1,, 1,, 1,,			11. County or Pari	ish, State		
NE/NE Section 4 T9S R18	BE .			Uintah,UT			
12. CHECK	(APPROPRIATE BOX(ES)	TO INIDICATE N	ATURE OF	NOTICE, OR OT	HER DATA		
TYPE OF SUBMISSION		TYI	E OF ACTIO	N			
☐ Notice of Intent ☑ Subsequent Report ☐ Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injector	Deepen Fracture Treat New Construction Plug & Abandon Plug Back	Reclam Recom		Water Shut-Off Well Integrity Other Weekly Status Report		
the well. A cement bond lew/ 20/40 mesh sand. Perf (5579-5585') (4 JSPF); #4 between stages. Fracs we drilled out. Well was clear were run in and anchored	od 02/15/05-02/22/05 on procedures initiated in the og was run and a total of four fintervals were #1 (5897-590; (4343-4350') (4317-4321') (4 ere flowed back through chokined out to PBTD @ 5979'. Zo in well. End of tubing string (ction via rod pump on 02/22/0	Green River Interva 3'), (5774-5781') (Al 1296-4300') (All 4 JS es. A service rig wa ones were swab test @ 5885'. A new 1 1	is were performed to the series of the serie	orated and nydrau 2 (5665-5674'), (4 osite flow-through well on 2/18/05. I cleanup. A BHA & oump was run in v	Illicary fracture treated JSPF); #3 frac plugs were used Bridge plugs were & production tog string		
I hereby certify that the foregoing Name (Printed/ Typed)	is true and correct	Title					
Tara Kinney		Production Cle	rk				
Signature (ATA KIN)	NU	Date 2/24/2005					
11/11/11/11/11/11/11/11/11/11/11/11/11/	A STHIS SPACE FOR	KARRITEKAN/ORAS	ESTE OB	CE USE	194 0 (1944) (1944) (1		
	Ų.	ent at			ate		
Approved by	ached. Approval of this notice does not w	Titl		D			
certify that the applicant holds legal or	r equitable title to those rights in the subje	ect lease Off	ice				
which would entitle the applicant to co	onduct operations thereon.			1	anner of the United		



Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.





Secretary of State

ARTICLES OF AMENDMENT TO THE ARTICLES OF INCORPORATION OF INLAND PRODUCTION COMPANY

In the Office of the Secretary of State of Texas

SEP 02 2004

Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 - Name

The name of the corporation is Inland Production Company.

ARTICLE 2 - Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE - The name of the corporation is Newfield Production Company."

ARTICLE 3 - Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

Susan G. Riggs, Treasurer



United States Department of the Interior



BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155 http://www.blm.gov

IN REPLY REFER TO: 3106 (UT-924)

September 16, 2004

Memorandum

To:

Vernal Field Office

From:

Acting Chief, Branch of Fluid Minerals

Subject:

Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Milas Llouters

Michael Coulthard Acting Chief, Branch of Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

cc:

MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225 State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114

Teresa Thompson Joe Incardine Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
.*	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357 ⁻	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553·	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833 [,]	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		·
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		
*					

OPERATOR CHANGE WORKSHEET

011

Change of Operator (Well Sold)

ROUTING
1. GLH
2. CDW
3. FILE

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below	ve:	9/1/2004					┙		
FROM: (Old Operator):	TO: (New Operator):					1			
N5160-Inland Production Company				N2695-Newfie	ld Productio	n Company	y		ı
Route 3 Box 3630			-		Box 3630				
Myton, UT 84052				Myton,	UT 84052				1
Phone: 1-(435) 646-3721				Phone: 1-(435)	646-3721				┛
C	A No.			Unit:					_
WELL(S)									4
NAME	SEC	TWN	RNG	API NO		LEASE	WELL	WELL	
		0000	1705	4204725406	NO 14491	TYPE Federal	TYPE OW	STATUS DRL	K
FEDERAL 16-1-9-17				4304735496			ow	DRL	r k
FEDERAL 16-11-9-17				4304735497	99999	Federal			I I
FEDERAL 14-11-9-17	11			4304735498		Federal	OW	APD	_
FEDERAL 10-11-9-17	11			4304735500		Federal	OW	APD	ŀ
FEDERAL 8-11-9-17	11			4304735501		Federal	OW	DRL	ŀ
FEDERAL 2-11-9-17	11	090S		4304735502		Federal	ow	DRL	I
FEDERAL 16-12-9-17	12_			4304735516		Federal	ow	DRL	I
FEDERAL 14-12-9-17	12	090S	170E	4304735517		Federal	OW	DRL	1
FEDERAL 12-12-9-17	12	090S	170E	4304735518	14497	Federal	OW	DRL	ŀ
FEDERAL 10-12-9-17	12	090S	170E	4304735519	14482	Federal	OW	DRL	ŀ
FEDERAL 4-12-9-17	12	090S	170E	4304735520	14553	Federal	OW	DRL	I
FEDERAL 1-4-9-18	04	090S	180E	4304735473	14533	Federal	OW	DRL	I
FEDERAL 7-4-9-18	04	090S	180E	4304735474	14499	Federal	OW	DRL]
FEDERAL 9-4-9-18	04	090S	180E	4304735475	14530	Federal	OW	DRL	I
FEDERAL 15-4-9-18	04	090S	180E	4304735476		Federal	ow	APD	J
FEDERAL 14-5-9-18	05	090S	180E	4304735505		Federal	OW	APD]
FEDERAL 12-5-9-18	05	090S	180E	4304735506		Federal	OW	APD	j
FEDERAL 12-7-9-18	07	090S	180E	4304735503		Federal	OW	APD]
	07	090S	180E	4304735504		Federal	OW	APD	I
FEDERAL 8-7-9-18						y		APD	

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

(R649-8-10) Sundry or legal documentation was received from the FORMER operator on: 9/15/2004
 (R649-8-10) Sundry or legal documentation was received from the NEW operator on: 9/15/2004

3. The new company was checked on the Department of Commerce, Division of Corporations Database on:

2/23/2005

4. Is the new operator registered in the State of Utah:

.11.

YES Business Number:

755627-0143

5. If NO, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on:	IN PLACE		
6b. Inspections of LA PA state/fee well sites complete on:	waived		
_			
7. Federal and Indian Lease Wells: The BLM and or	* *	•	•
or operator change for all wells listed on Federal or Indian le	eases on:	BLM	BIA
8. Federal and Indian Units:			
The BLM or BIA has approved the successor of unit opera	ator for wells listed or	n: <u>n/a</u>	
9. Federal and Indian Communization Agreemen	` '	,	
The BLM or BIA has approved the operator for all wells li	isted within a CA on:	na/	
10. Underground Injection Control ("UIC") The	ne Division has appro	ved UIC Form 5, Tr	ansfer of Authority to
Inject, for the enhanced/secondary recovery unit/project for			2/23/2005
DAGEA EDIZEDAY.			
DATA ENTRY: 1. Changes entered in the Oil and Gas Database on:	2/28/2005		
Changes entered in the On and Oas Database on.	2/20/2003		
2. Changes have been entered on the Monthly Operator Changes	nge Spread Sheet on	2/28/200	<u>)5</u>
B. Bond information entered in RBDMS on:	2/28/2005		
bolid information efficied in RDDW13 on.	2/20/2003		
4. Fee/State wells attached to bond in RBDMS on:	2/28/2005		
5. Injection Projects to new operator in RBDMS on:	2/28/2005		
o. Injection Projects to new operator in RDD/MS on.	2,20,2003		
6. Receipt of Acceptance of Drilling Procedures for APD/New	on:	waived	
PEDEDAL WELL (C) DOND VEDICATION.			
FEDERAL WELL(S) BOND VERIFICATION: 1. Federal well(s) covered by Bond Number:	UT 0056		
1. 1 edetal well(s) covered by Bolid Hulliber.	010050		
INDIAN WELL(S) BOND VERIFICATION:			
I. Indian well(s) covered by Bond Number:	61BSBDH2912		
CONTRACTOR AND A CONTRA	NT		
FEE & STATE WELL(S) BOND VERIFICATION (R649-3-1) The NEW operator of any fee well(s) listed covers (respectively).		r 61BSBDH	2010
1. (R049-3-1) The NEW operator of any fee wen(s) fisted cover	ered by Bond Numbe	UIDSDDII.	
2. The FORMER operator has requested a release of liability fr	om their bond on:	n/a*	
The Division sent response by letter on:	n/a		
LEASE INTEREST OWNER NOTIFICATION:		1 h 1 6	dha Diniaian
 (R649-2-10) The FORMER operator of the fee wells has been of their responsibility to notify all interest owners of this characteristics. 		rmed by a letter from n/a	the Division
of their responsibility to notify an interest owners of this one.		154	
COMMENTS:		1 : -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
*Bond rider changed operator name from Inland Production Con	npany to Newfield Pr	oduction Company -	received 2/23/05
	-		

FORM 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

	DOREAU OF LAND MA				5. Lease Serial N	10.
SUNDR	Y NOTICES AND REI this form for proposals	PORTS (ON WELLS	n	UTU16539	
U 1 & abandoned w	/ell. Use Form 3160-3 ((APD) for	such proposa	ls.	6. If Indian, Allo	ttee or Tribe Name.
SUBMIT IN T	RIPLICATE - Other I	nstructio	ns on reverse	side	7. If Unit or CA/A	Agreement, Name and/or No.
1. Type of Well X Oil Well Gas Well	Other				0 W 1124	
2. Name of Operator	Other				8. Well Name and FEDERAL 1-4-	
Newfield Production Company					9. API Well No.	9-18
3a. Address Route 3 Box 3630		3b. Ph	one No. (include a	re code)		
Myton, UT 84052			16.3721			ol, or Exploratory Area
 Location of Well (Footage, Se 831 FNL 652 FEL 	c., T., R., M., or Survey Descri	iption)			Monument Butt	te
NE/NE Section 4 T9S R1	BE				l 1. County or Par Uintah, UT	ish, state
12. CHEC	X APPROPRIATE BOX	K(ES) TO	INIDICATE N	ATUR	RE OF NOTICE, OR OT	THER DATA
TYPE OF SUBMISSION					ACTION	
	Acidize	Пр	eepen		Production(Start/Resume)	☐ Water Shut-Off
X Notice of Intent	Alter Casing		racture Treat	ä	Reclamation	Wall Integrity
Subsequent Report	Casing Repair		ew Construction	ō	Recomplete	Other
<u></u>	Change Plans	☐ PI	ug & Abandon	$\bar{\Box}$	Temporarily Abandon	Variance
Final Abandonment Notice	Convert to Injector	☐ PI	ug Back	\Box	Water Disposal	
Newfield is requesting a va a surge of gas when the th as well as risk a fire hazard	ief hatches are open. W	hile gaugii	oil production ta ng tanks, lease	inks ed opera	quipped with back presso tors will be subject to bro	ure devices will emit eathing toxic gases
O STANO CARA); DR					RECEIVED
4-14-0G						APR 0 8 2005
						DIV. OF OIL, GAS & MINING
hereby certify that the foregoing in Name (Printed/Typed)	s true and correct		Title			SIZ, SINO & MININI
Mandie Crozier			Regulatory Spec	ialist		
gnaure	7,0		Date			
Monde	Who	EOD EDE	04/07/2005			
	UMS SPACE	FOR FEL	DERAL OR S	TATE	OFFICE USE	
Approved by Conditions of approval, if any, are attact certify that the applicant holds legal or e which would entitle the applicant to cond	quitable title to those rights in the		Office	Utal	epted by the Date h Division of as and Mining	e Federal Approval Of The Action Is Necessary
Title 18 U.S.C. Section 1001 and Title 4 States any false, fictitious and fraudulent	3 U.S.C. Section 1212, make it a c statements or representations as to	rime for any p o any matter w	erson knowingly and ithin its jorisdiction	willfully	to make to any department or age	ncy of the United

(Instructions on reverse)

35. LIST OF ATTACHMENTS

Kathy Chapman

RECEIVED TO THE BODY AND

4/7/2005

DATE

(July 1992)								وستان الراسي معادة (See othe	ar in	OMB NO		
•			UNI	TED :	STATE	3	APR 08	2005 structions	cns	Expires: 1		
013		DEPAR	RTME	NTO	FTHE	NTER	RIOR NOFOIL, GAS	LOUJ reverse s				AND SERIAL NO.
		BUR	EAU O	F LANI	D MANA	GENE	OF OIL, GAS	& MINIMO				16539
WELL	COMP	PLETION	ORE	ECO	MPLET	ION	REPORT	MD LOG		6. IF INDIAN	, ALLOTTE	E OR TRIBE NAME
la. TYPE OF WORK					1964 200 2	19111	7 <u>-1</u> -171 }	1119 200				<u>NA</u>
	-	OIL	x	GAS		DRY	7			7. UNIT AGR		-
1b. TYPE OF WELL		WELL		WEL	L L	ــا تسم	Other				Fede	eral Unit
	_								ŀ	8. FARM OR	LEASE NAV	ME, WELL NO
NEW X	WORK OVER	DEEPEN	П	PLUG BACI		IFF	1					
2. NAME OF OPERATOR			<u> </u>	BACI	K	ESVR.	Other	-		9. WELL NO.		l 1-4-9-18
		Ne	wfield	Explora	ation Con	npany			1	9. WELL NO.		7-35473
3. ADDRESS AND TELEI	PHONE NO.	1401 17#		ita 400	O D	- 00	22222		1	0. FIELD AN	D POOL OR	WILDCAT
4. LOCATION OF WE	I.I. (Report	1401 17th	and in acco	rdance with	Denve	er, CO	80202					ent Butte
At Surface	SEE (Report	8	31 FNL 8	8 652 FE	L (NE/NE)	Sec. 4,	T9S R18E		1	1. SEC., T., R OR AREA	, M., OR BL	OCK AND SURVEY
At top prod. Interval rep	ported below	/									Sec. 4, 7	Г9S, R18E
At total depth				14. API NO		170	DATE ISSUE		1:	2. COUNTY O		13. STATE
15. DATE SPUDDED	16. DATE T	.D. REACHED	17 DA		3-047-354 (Ready to proc			2-12-04 (df, rkb, rt, gr, e		Uir	ntah	UT
1-21-05		2-04-05			-22-05	 ,	4840' GL	4852' KB	10.)*			19. ELEV. CASINGHEAD
20. TOTAL DEPTH, MD &	& TVD	21. PLUG BA	CK T.D., MI	% TVD	- 1	MULTIPLE	•	23. INTERVALS	ROTAL	RY TOOLS		CABLE TOOLS
6030'			5979'		HC	W MANY*	•	DRILLED BY	1	v		
24. PRODUCING INTERV	/AL(S), OF TI	HIS COMPLETION		TOM, NAM	E (MD AND TV	VD)*				Х		25. WAS DIRECTIONAL
					n River 4	•	903'					SURVEY MADE
												No
E TYPE ELECTRIC AND DUAL Induction	OTHER LO	GS RUN SP. Compo	neatod	Doneit	Comp	onanto	d Nautron C	منيه		. D		27. WAS WELL CORED
23.	Guara,	or , compe	iisaleu	CAS	ING RECOR	El ISale	t all strings set in	or, Caliper,	Cemen	t Bond L	.og	No
CASING SIZE/O	GRADE	WEIGHT			PTH SET (MD)		HOLE SIZE	TOP OF CEN	MENT, CEM	ENTING REC	ORD	AMOUNT PULLED
8-5/8" - J 5-1/2" - J		24 15.			314		12-1/4"	To surface w	/ith 160 s	xs Class "	G" cmt	
J-1/2 - J	1-00	15.	O#		6023		7-7/8"	400 sxs Premli	ite II mixed 8	\$450 sxs 50/5	0 POZ	
29.		LIN	ER RECO	RD	· · · · · · · · · · · · · · · · · · ·			30,	T	JBING REC	CORD	
SIZE	T	OP (MD)		M (MD)	SACKS C	EMENT*	SCREEN (MD)	SIZE		PTH SET (MI		PACKER SET (MD)
	ļ				<u> </u>			2-7/8"		OT @		TA @
1. PERFORATION REC	OPD (Into-	-1 -i 1 1	`		<u> </u>		100			5885'	1	5716
	ERVAL	ai, size and numper	•	<u>ZE</u>	SPF/NU	MBER	32. DEPTH INT	ACID, SHOT, ERVAL (MD)				ZE, ETC. MATERIAL USED
(CP 4,5) 5		'-5897'-5903'	4	1"	4/5		5774'-	5903'				nd in 323 bbls fluid
	<u> </u>) 5665'-5674'		1"	4/3	36	5665'-	-5674'	Frac w	/35,690#	20/40 saı	nd in 379 bbls fluid
(OD4 6) 40001 400	<u>`</u>) 5579'-5585'		1"	4/2		5579'-					nd in 358 bbls fluid
(GB4,6) 4296'-430	0', 4317'-	21', 4343'-50'	4	1"	4/6	50	4296'-	4350'	Frac w	/62,289# :	20/40 sai	nd in 473 bbls fluid
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3.*						RODUCT		<u>-</u>				
PATE FIRST PRODUCTIO		PRODUCTIO	N METHOD	(Flowing, g	as lift, pumping	size and ty	pe of pump)	/OM 5:		T		ATUS (Producing or shut-in)
2-22-0		OURS TESTED	CHOKE	I/Z X T	-1/2" X 1		HAC Pump w	V/SM Plunge GAS-MCF.	r WATER-	BBI		RODUCING GAS-OIL RATIO
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LOW. TODAYO FRESS.		ASING FRESSURE		LATED JR RATE	OIL-BB	SL.	GASMCF.		WATERB	BL. O	IL GRAVIT	Y-API (CORR.)
				>								
4. DISPOSITION OF GAS	(Sold, used fo	or fuel, vented, etc.)	اداد	0 11					TE	ST WITNESS	ED BY	
			2010	∝ USEC	for Fuel				l l			

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Office Manager

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and 38. **GEOLOGIC MARKERS** recoveries); FORMATION TOP воттом DESCRIPTION, CONTENTS, ETC. TOP NAME TRUE MEAS. DEPTH VERT. DEPTH Well Name Garden Gulch Mkr 3778' Federal 1-4-9-18 Garden Gulch 1 3989' Garden Gulch 2 4102' Point 3 Mkr 4365' X Mkr 4586' Y-Mkr 46221 Douglas Creek Mkr 4756' BiCarbonate Mkr 4998' B Limestone Mkr 5130' Castle Peak 55631 Basal Carbonate 5960' Total Depth (LOGGERS 6027'



United States Department of the Interior

BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155



IN REPLY REFER TO 3180 UT-922

June 30, 2005

Newfield Production Company Attn: Kelly L. Donohoue 1401 Seventeenth Street, Suite 1000 Denver, Colorado 80202

Gentlemen:

The Sundance (Green River) Unit Agreement, Uintah County, Utah, was approved June 30, 2005. This agreement has been designated No. UTU82472X, and is effective July 1, 2005. The unit area embraces 11,143.86 acres, more or less.

Pursuant to regulations issued and effective June 17, 1988, all operations within the Sundance (Green River) Unit will be covered by your nationwide (Utah) oil and gas bond No. 0056.

The following leases embrace lands included within the unit area:

UTU0075174	UTU39713	UTU65970*	UTU79013*
UTU16539*	UTU39714	UTU74404	UTU79014*
UTU16540	UTU44429	UTU74835	UTU80915
UTU17424*	UTU64806*	UTU74872*	UTU82205
UTU18043	UTU65969	UTU75234	3.332233

* Indicates lease to be considered for segregation by the Bureau of Land Management pursuant to Section 18 (g) of the unit agreement and Public Law 86-705. 2005.00

All lands and interests by State of Utah, Cause No. 228-08 are fully committed.

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject leases which are committed hereto.

> RECEIVED JUL 0 / 2005

We are of the opinion that the agreement is necessary and advisable in the public interest and for the purpose of more properly conserving natural resources. Certification-Determination, signed by the School and Institutional Trust Land Administration for the State of Utah, is attached to the enclosed agreement. We request that you furnish the State of Utah and all other interested principals with appropriate evidence of this approval.

Sincerely,

/s/ Terry Catlin

Terry Catlin Acting Chief, Branch of Fluid Minerals

Enclosure

bcc: Mary Higgins w/enclosure

MMS - Data Management Division (Attn: James Sykes)

Trust Lands Administration
Division of Oil, Gas and Mining
Field Manager - Vernal w/enclosure

File - Sundance (Green River) Unit w/enclosure

Agr. Sec. Chron Fluid Chron Central Files

UT922:TAThompson:tt:06/30/2005

Entity Form 6
"C" Change from one existing entity to another existing entity

API	Well	Sec	Twsp	Rng	Entity	Entity Eff Date
4304735697	FEDERAL 15-13-9-17	13	090S	170E	14828 to 14844	9/20/2005
4304735698	FEDERAL 13-13-9-17	13	090S	170E	14813 to 14844	9/20/2005
4304735699	FEDERAL 11-13-9-17	13	090S	170E	14837 to 14844	9/20/2005
4304735702	FEDERAL 5-13-9-17	13	090S	170E	14836 to 14844	9/20/2005
4304736012	FEDERAL 14-13-9-17	13	090S	170E	14790 to 14844	9/20/2005
4304732438	FEDERAL 44-14Y	14	090S	170E	11506 to 14844	9/20/2005
4304735708	FEDERAL 9-14-9-17	14	090S	170E	14808 to 14844	9/20/2005
4304735709	FEDERAL 11-14-9-17	14	090S	170E	14734 to 14844	9/20/2005
4304735710	FEDERAL 15-14-9-17	14	090S	170E	14735 to 14844	9/20/2005
4304736068	FEDERAL 14-14-9-17	14	090S	170E	14770 to 14844	9/20/2005
4304736069	FEDERAL 10-14-9-17	14	090S	170E	14787 to 14844	9/20/2005
4304736071	FEDERAL 6-14-9-17	14	090S	170E	14809 to 14844	9/20/2005
4304731181	FEDERAL 14-4-9-18	04	090S	180E	14601 to 14844	9/20/2005
4304732653	FEDERAL 13-4-9-18	04	090S	180E	14602 to 14844	9/20/2005
4304732654	FEDERAL 11-4-9-18	04	090S	180E	14603 to 14844	9/20/2005
4304735473	FEDERAL 1-4-9-18	04	090S	180E	14533 to 14844	9/20/2005
4304735474	FEDERAL 7-4-9-18	04	090S	180E	14499 to 14844	9/20/2005
4304735475	FEDERAL 9-4-9-18	04	090S	180E	14530 to 14844	9/20/2005
4304735589	FEDERAL 2-4-9-18	04	090S	180E	14485 to 14844	9/20/2005
4304735590	FEDERAL 3-4-9-18	04	090S	180E	14697 to 14844	9/20/2005
4304735591	FEDERAL 5-4-9-18	04	090S	180E	14680 to 14844	9/20/2005
4304735592	FEDERAL 6-4-9-18	04	090S	180E	14696 to 14844	9/20/2005
4304735593	FEDERAL 8-4-9-18	04	090S	180E	14528 to 14844	9/20/2005
4304735594	FEDERAL 10-4-9-18	04	090S	180E	14535 to 14844	9/20/2005
4304735595	FEDERAL 12-4-9-18	04	090S	180E	14670 to 14844	9/20/2005
4304732503	21BALCRON FED 31-5Y	05	090S	180E	11680 to 14844	9/20/2005
4304735290	FEDERAL 5-5-9-18	05	090S	180E	14669 to 14844	9/20/2005
4304735292	FEDERAL 9-5-9-18	05	090S	180E	14554 to 14844	9/20/2005
4304735293	FEDERAL 11-5-9-18	05	090S	180E	14769 to 14844	9/20/2005
4304735294	FEDERAL 13-5-9-18	05	090S	180E	14658 to 14844	9/20/2005
4304735505	FEDERAL 14-5-9-18	05	090S	180E	14687 to 14844	9/20/2005
4304735506	FEDERAL 12-5-9-18	05	090S	180E	14651 to 14844	9/20/2005
4304735891	FEDERAL 10-5-9-18	05	090S	180E	14698 to 14844	9/20/2005
4304734933	FEDERAL 6-6-9-18	06	090S	180E	14152 to 14844	9/20/2005
4304734934	FEDERAL 7-6-9-18	06	090S	180E	14126 to 14844	9/20/2005
4304734936	FEDERAL 13-6-9-18	06	-	180E	14049 to 14844	9/20/2005



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 1595 WYNKOOP STREET DENVER, CO 80202-1129 http://www.epa.gov/region8

NOV 3 0 2007

Ref: 8P-W-GW

CERTIFIED MAIL RETURN RECEIPT REQUESTED

David Gerbig Newfield Production Company 1401 Seventeenth Street, Suite 1000 Denver, CO 80202 Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED DEC 0 3 2007

DIV. OF OIL, GAS & MINING

43.047.35473 95 18E 4 Re: Final Permit

EPA UIC Permit UT21081-07302

Federal 1-4-9-18 Uintah County, Utah

Dear Mr. Gerbig:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Federal 1-4-9-18 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on NOV 16 2007. No comments on the Draft Permit were received during the Public Notice period; therefore the Effective Date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C Subpart 1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit.

This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 312-6174.

Sincerely,

MStephen S. Tuber

Jet MAAn

Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

enclosure:

Final UIC Permit

Statement of Basis

Form 7520-7 Application to Transfer Permit

Form 7520-11 Monitoring Report Form 7520-12 Well Rework Record Form 7520-13 Plugging Record

cc:

Letter only:

Uintah & Ouray Business Committee-Ute Indian Tribe:

Curtis Cesspooch, Chairman Irene Cuch, Vice-Chairman

Frances Poowegup, Councilwoman

Ronald Groves, Councilman Steven Cesspooch, Councilman Phillip Chimburas, Councilman

Chester Mills
Superintendent
Uintah & Ouray Indian Agency
U.S. Bureau of Indian Affairs

cc: all enclosures:

Michael Guinn District Manager Newfield Production Company Myton, Utah Shaun Chapoose Director Land Use Dept. Ute Indian Tribe

Lynn Becker Director Energy & Minerals Dept. Ute Indian Tribe

Gilbert Hunt Assistant Director State of Utah - Natural Resources

Fluid Minerals Engineering Office U.S. Bureau of Land Management Vernal, Utah

\$EPA

UNDERGROUND INJECTION CONTROL PROGRAM PERMIT

PREPARED: November 2007

Permit No. UT21081-07302

Class II Enhanced Oil Recovery Injection Well

Federal 1-4-9-18 Uintah County, UT

Issued To

Newfield Production Company

1401 Seventeenth Street, Suite 1000 Denver, CO 80202

Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Newfield Production Company 1401 Seventeenth Street, Suite 1000 Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Federal 1-4-9-18 831' FNL & 652' FEL, NENE S4, T9S, R18E Uintah County, UT

EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §\$144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

Issue Date: <u>NOV 3 0 2007</u> Effective Date <u>NOV 3 0 2007</u>

M Stephen S. Tuber

Assistant Regional Administrator*

Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
 - (i) on the injection tubing; and
 - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
 - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
 - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permitee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

(a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The Permittee shall retain records at the location designated in APPENDIX D.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abanonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or teminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

- (a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.
- (d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
 - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
 - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website http://www.nrc.uscg.mil/index.htm.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

(c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

See diagram.

The Federal No. 1-4-9-18 was drilled to a total depth of 6030 feet (KB) feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 314 feet in a 12-1/4 inch hole using 160 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 6023 feet (KB) in a 7-7/8 inch hole with 400 sacks of Premium Lite II and 450 sacks of 50/50 poz mix. This well construction is considered adequate to protect USDWs.

The EPA calculates the top of cement as 520 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 160 feet. CBL analysis does identify 80% bond index cement bond (3700 feet - 3800 feet) within the Confining Zone (3639 feet - 3778 feet).

The schematic diagram shows enhanced recovery injection perforations in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 3778 feet and the top of the Wasatch Formation (Estimated to be 6085 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

Federal 1-4-9-18

Spud Date: 1/21/05 Put on Production: 2/22/05

NE/NE Sec. 4, T9S R18E Uintah, County API# 43-047-35473; Lease# UTU-16539 Proposed Injection Wellbore Diagram

Initial Production: 61 BOPD, ... 51 MCFD, 22 BWPD

GL: 4840° KB: 4852 FRAC JOB Rubbin 92: Base USOWS 02/16/05 5774*-5903 Frac CP 4.5 sands as follows: 27,#771 20/40 sand in 323 bbls Lightning Frac 17 fluid, Treated @ avg press of 1510 psi w/avg rate of 24.8 BPM, ISIP 1600 psi, Calc SURFACE CASING flush. 5772 gal. Actual flush: 5796 gal. CSG SIZE: 8-5/8" 314 02/16/05 | 56651-56741 Frac CP2 sands as follows: GRADE: J-55 35,690# 20/40 sand in 379 bbls Lightning Frac 17 fluid. Treated @ avg press of 1825 psi w/avg rate of 24.7 BPM. ISIP 1830 psi, Calc 520 TOC/EPA WEIGHT: 24# DEPTH LANDED: 313.94 KB Green River flush; 5603 gal. Actual flush; 5712 gal. 02/16/05 5579*-5585* Frac CPLS sands as follows: 32,755# 20/40 sand in 358 bbls Lightning HOLE SIZE:12-1/1 Frac 17 fluid. Treated @ avg press of 1893 psi w/avg rate of 24.7 BPM. ISIP 2100 psi, Calc CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf. flush: 5577 gal. Actual flush: 5586 gal. PRODUCTION CASING TONZ 02/17/05 4296*-4350* Frac GB4,6 sands as follows: 62,289# 20/40 sand in 473 bbls Lightning CSG SIZE: 5-1/2" Frac 17 fluid. Treated @ avg press of 2443 psi w/avg rate of 24.7 BPM. ISIP 2620. Cafe flush: 4294 gal. Actual flush: 4200 gal. Mahuazany Bench 3034-3052 GRADE: J-55 WEIGHT: 15.5# 3639-3778' Confining Zone 3778' Garden Gulch LENGTH: 143 jts. (6024.71°) DEPTH LANDED: 6022,71 KB 86% Bond 3700-3806 CEMENT DATA: 400 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ. CEMENT TOP AT: 160° TUBING SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 175 jts (5704.381) Packer @ 4261' TUBING ANCHOR: 5716,38' KB NO. OF JOINTS: 1 jts (32.59°) 4296*-4300 SEATING NIPPLE: 2-7/8" (1.10") 4317'-4321' SN LANDED AT: 5751.77" KB PERFORATION RECORD 4343'-4350' NO. OF JOINTS: 2 jts (65.201) 02/15/05 5897°-5903° 4 JSPF TOTAL STRING LENGTH: EOT @ 5818.52" W/12 "KB 02/15/05 5774"-5781" 4 JSPF 28 holes 02/16/05 5665°-5674° 4 JSPF Douglas Creek 4756: Casto Feat 5563-5586 02/16/05 5579°-5585° 4 JSPF 24 holes 02/16/05 4343'-4350' 4 JSPF 28 holes 02/16/05 4317'-4321' 4 JSPF 16 holes 02/16/05 4296°-4300° 4 JSPF 5579"-5585" 5665"-5674" 5774'-5781" 5897"-5903" NEWFIELD SHOE OF BASSI Carbon The
SHOE OF 6030'
EST. WISHER 6085' Federal 1-4-9-18 831 FNL & 652 FEL

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

NO LOGGING REQUIREMENTS

Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

	•
TYPE OF TEST	DATE DUE
Standard Annulus Pressure	Prior to receiving authorization to inject and at least once every five (5) years after the last successful test
Pore Pressure	Prior to receiving authorization to commence injection

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

	•	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
WELL NAME		ZONE 1 (Upper)
Federal 1-4-9-18		1,160

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

			FRACTURE GRADIENT
	TOP	BOTTOM	_
Green River: Garden Gulch & Douglas Creek		INTERV. TOP	APPROVED INJECTION INTERVAL (KB, ft) TOP BOTTOM 3,778.00 - 6,085.00

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE I	MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
	Injection pressure (psig)	
OBSERVE AND	Annulus pressure(s) (psig)	
RECORD	Injection rate (bbl/day)	
	Fluid volume injected since the well began injecting (bbls)	

	ANNUALLY
	Injected fluid total dissolved solids (mg/l)
ANALYZE	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

	ANNUALLY
	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
DEDODT	Each month's injected volume (bbl)
REPORT	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

Records of all monitoring activities must be retained and made available for inspection at the following location:

Newfield Productioon Company 1401 Seventeenth Street - Suite 1000 Denver, CO 80202

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

See diagram.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2" casing across the Trona Zone and the Mahogany Shale approximately 2950 feet to 3100 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 150-foot balanced cement plug inside the 5-1/2" casing across the Trona Zone and the Mahogany Shale, approximately 2950 feet to 3100 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (2150 feet - 2250 feet) on the backside of the 5-1/2" casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2" casing across the base of the Uinta Formation, from approximately 2150 ft to 2250 ft.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 364 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

Attachment Q-2

Federal 1-4-9-18

Spud Date: 1/21/05

Put on Production: 2/22/05

GL: 4840° KB: 4852°

Proposed P & A Wellbore Diagram Initial Production: 61 BOPD, 51 MCFD, 22 BWPD

(120 Base USDWs Publication 92 Cement Top @ 160° Pump 42 sx Class G Cement down 5-1/2" easing to 364" SURFACE CASING CSG SIZE: 8-5/8" Casing Shoe @ 314 GRADE: J-55 364 WEIGHT: 24# LENGTH: 7 jts. (303.941) DEPTH LANDED: 313.94° KB HOLE SIZE:12-1/4" CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf. Coment Aug 2150-2250 Base Winta-Top Uppel Given Rivel CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5#

LENGTH: 143 jts. (6024.71')

DEPTH LANDED: 6022.71' KB
HOLE SIZE: 7-7/X"

LEMONT Plus 1956-3106

CEMENT DATA: 400 sxs Prem. Life II mixed & 450 sxs 50/50 POZ.

CEMENT TOP AT: 160°

80% Bond 3706-3800

2998 Trone
3034'-3051 M2hog2ny Bench
3639'-3778' Confining Zone.
3778' Corden Gulch

20'4-100s G Centent plug on top of CIBP
CIBP 50' Aboute for perforchism
4296'-4300'
4317'-4321'
43.13'-4350'
4756' Doug 125 Creek

Cashe Pask 5563'-5586'

5579'-5585'

5665'-5674'

5774'-5781'

5897'-5003'

5966' B331 Carbonake
PBITI di 5070'

NEWFIELD

Federal 1-4-9-18
831 FNL & 652 FEL
NE/NE Sec. 4, T9S R18E
Uintah, County
API# 43-047-35473; Lease# UTU-16539

SHOE @ 6023 TD @ 6030

Est. Waszhl. 6085°

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

No corrective action is deemed necessary for this project.

STATEMENT OF BASIS

NEWFIELD PRODUCTION COMPANY FEDERAL 1-4-9-18 UINTAH COUNTY, UT

EPA PERMIT NO. UT21081-07302

CONTACT: Emmett Schmitz

U. S. Environmental Protection Agency Ground Water Program, 8P-W-GW

1595 Wynkoop Street

Denver, Colorado 80202-1129

Telephone: 1-800-227-8917 ext. 312-6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Newfield Production Company 1401 Seventeenth Street, Suite 1000 Denver, CO 80202

on

July 12, 2006

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

Federal 1-4-9-18 831' FNL & 652' FEL, NENE S4, T9S, R18E Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

The Federal 1-4-9-18 is currently an active Green River Formation oil well with open perforations in the Garden Gulch and Douglas Creek Members. It is the initial intent of the applicant to use the current perforations for Class II enhanced recovery injection. The Federal 1-4-9-18 has total depth in the Basal Carbonate Member.

	TABLE 1.1	•				
WELL STATUS / DATE OF OPERATION						
	NEW WELLS					
Well Name	Well Status	Date of Operation				
Federal 1-4-9-18	New	N/A				

PART II. Permit Considerations (40 CFR 146.24)

Hydrogeologic Setting

Geologic Setting (TABLE 2.1)

The proposed enhanced oil recovery injection well is located in the Greater Monument Butte Field. T7-9S and R15-19E, which lies near the center of the broad, gently northward dipping south flank of the Uinta Basin. More than 450 million barrels of oil (63 MT) have been produced from sediments of the Uinta Basin. The Uinta Basin is a topographic and structural trough encompassing an area of more than 9300 square mi (14,900 km) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains. and a gently dipping south flank. The Uinta Basin was formed in Paleocene to Eocene time. creating a large area of internal drainage which was filled by the ancestral Lake Uinta. The lacustrine, or fresh water lake-formed, sediments deposited in and around Lake Uinta make up the Uintah and Green River Formations. The southern shore of Lake Uinta was very broad and flat, resulting in large cyclic shifts of the location of the shoreline during the many repeated transgressive and regressive cycles caused by the climatic and tectonic-induced rise and fall of water levels of the lake. Distributary-mouth bars, distributary channels, and near-shore bars are the primary oil producing sandstone reservoirs in the area. (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report. 4/1/99-9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103).

The Duchesne River Formation is absent in this area. Shale and siltstone of the Uintah Formation outcrop and compose the surface rock throughout the area. The lower 600 feet to 800 feet of the Uinta Formation, consisting generally of shale interbedded with occasionally water-bearing sandstone lenses between 5 feet to 20 feet thick, is underlain by the Green River Formation. The Green River Formation is further subdivided into several Member and local marker units. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked, intertonguing deltaic and near-shore sand and silt deposits. Red alluvial shale and siltstone deposits that intertongue with the Green River sediments are of the Colton and Wasatch Formations. Under the Wasatch Formation is the Mesaverde Formation, which consists primarily of continental-origin deposits of interbedded shale, sandstone, and coal.

The geologic dip is about 200 feet per mile, and there are no known surface faults in this area. Veins of gilsonite, a natural resinous hydrocarbon occasionally mined as a resource, occurs in the greater Uintah Basin though it is predominantly found on the eastern margin of the basin near the Colorado border. Vertical veins, generally between 2 ft to 6 ft wide but up to 28 ft wide, may extend many miles in length and occasionally extend as deep as 2000 ft. In this area within the Greater Monument Butte Field there is one known gilsonite vein. This vein is not considered to present a pathway for migration of fluid out of the injection zone because it terminates at depth of about 2000 ft, far above the protective confining layer and much deeper injection zone. Newfield and the owner of this former gilsonite mine have agreed to conditions for operation near this vein to ensure no potential for impact to this vein or to ground water from enhanced oil recovery operations.

TABLE 2.1 GEOLOGIC SETTING

Federal 1-4-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/i)	Lithology
Uinta	0	2,206	< 10,000	Interbedded lacustrine sand, shale and carbonate with fluviatile sand and shale.
Upper Green River	2,206	3,778	> 10,000	Interbedded lacustrine sand, shale and carbonate with fluviatile sand and shale.
Lower Green River: Garden Gulch Member	3,778	4,756	> 10,000	Interbedded lacustrine sand, shale and carbonate with fluviatile sand and shale.
Lower Green River Formation: Douglas Creek Member	4,756	5,960	> 10,000	Interbedded lacustrine sand, shale and carbonate with fluviatile sand and shale.
Lower Green River: Basal Carbonate Member	.5,960	6,085		Carbonate

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The Environmental Protection Agency (EPA) approved interval for Class II enhanced recovery injection in the Federal No. 1-4-9-18 is located between the top of the Garden Gulch Member (3778 feet) and the top of the Wasatch Formation estimated to be 6085 feet.

TABLE 2.2 INJECTION ZONES

Federal 1-4-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River: Garden Gulch & Douglas Creek Members	3,778	6,085	> 10,000	0.710		N/A
* C - Currently Exempted E - Previously Exempted P - Proposed Exemption N/A - Not Applicable						

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The 139-foot shale and impervious argillaceous silt Confining Zone (3639 feet - 3778 feet) directly overlies the top of the Garden Gulch Member.

	TABLE 2.3 CONFINING ZONES					
Federal 1-4-9-18						
Formation Name	Formation Lithology	Top (ft)	Base (ft)			
Upper Green River Confining Zone	Predominantly shale with interbedded impervious, competent argillaceous siltstone.	3,639	3,778			

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

Throughout the Greater Monument Butte Field area undergoing enhanced oil recovery operations, water analyses of the Green River Formation generally exhibit total dissolved solids (TDS) content well in excess of 10,000 mg/l. However, some recent water analyses from the field showed lower TDS values closer to 10,000 mg/l. While rain and surface water recharge into Green River Formation outcrops further south along the Book Cliffs/Roan Cliffs in effect "freshens" the Green River Formation water near those outcrops, in this area of the Monument Butte Field the observed occasional 'freshening' is ascribed to the effective dilution of the originally in-place high TDS water from injection of relatively fresh water for enhanced oil recovery operations. Water samples from deeper Mesaverde Formation sands in the nearby Natural Buttes Unit yield highly saline water.

The State of Utah "Water Wells and Springs" identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) around the Federal No. 1-4-9-18.

Technical Publication No. 92: State of Utah, Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW) in the Uinta Formation approximately 364 feet from the surface.

TABLE 2.4 UNDERGROUND SOURCES OF DRINKING WATER (USDW)

Federal 1-4-9-18

Formation Name	Formation Lithology	Top (ft)	Base (ft) TDS (mg/l)	
Uinta	Interbedded lacustrine sand, shale and carbonate with fluviatile sand and shale.	0	2,206	

PART III. Well Construction (40 CFR 146.22)

The Federal No. 1-4-9-18 was drilled to a total depth of 6030 feet (KB) feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 314 feet in a 12-1/4 inch hole using 160 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 6023 feet (KB) in a 7-7/8 inch hole with 400 sacks of Premium Lite II and 450 sacks of 50/50 poz mix. This well construction is considered adequate to protect USDWs.

The EPA calculates the top of cement as 520 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 160 feet. CBL analysis does identify adequate 80% bond index cement bond (3700 feet - 3800 feet) within the Confining Zone (3639 feet - 3778 feet).

The schematic diagram shows enhanced recovery injection perforations in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 3778 feet and the top of the Wasatch Formation (Estimated to be 6085 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

TABLE 3.1 WELL CONSTRUCTION REQUIREMENTS

Federal 1-4-9-18

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Production	7.88	5.50	0 - 6,030	160 - 6,030
Surface	12.25	8.63	0 - 314	0 - 314

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)

The well construction plan was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for this "new" injection well is shown in TABLE 3.1.

Remedial cementing may be required if the casing cement is shown to be inadequate by cement bond log or other demonstration of Part II (External) mechanical integrity.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing/casing annulus must be kept closed at all times so that it can be monitored as required under conditions of the Permit.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1 AOR AND CORRECTIVE ACTION Status TOC Total CAP (Abandoned Y/N) Depth (ft) Depth (ft) Required (Y/N) Well Name Type Producer Federal 2-4-9-18 No 5,960 390 No Federal 8-4-9-18 Producer 6,050 No 1,125 No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

FINAL PERMIT

PART V. Well Operation Requirements (40 CFR 146.23)

TABLE 5.1 INJECTION ZONE PRESSURES Federal 1-4-9-18						
Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)			
Green River: Garden Gulch & Douglas Creek Members	4,296	0.710	1,160			

Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)

fg = fracture gradient (from submitted data or tests)

sg = specific gravity (of injected fluid)

d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

There will be no restrictions on the cumulative or daily volume of authorized fluid injected into the approved Green River Formation interval. The permittee will not exceed the maximum authorized injection pressure (MAIP).

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

- 1. there is no significant leak in the casing, tubing, or packer (Part I); and
- 2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

PART I MI: Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1000 psi, which ever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

See diagram.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2" casing across the Trona Zone and the Mahogany Shale approximately 2950 feet to 3100 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 150-foot balanced cement plug inside the 5-1/2" casing across the Trona Zone and the Mahogany Shale, approximately 2950 feet to 3100 feet.

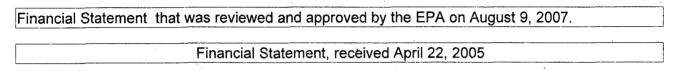
PLUG NO. 3: Seal USDWs: Squeeze a cement plug (2150 feet - 2250 feet) on the backside of the 5-1/2" casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2" casing across the base of the Uinta Formation, from approximately 2150 ft to 2250 ft.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 364 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:



Evidence of continuing financial responsibility is required to be submitted to the Director annually.

STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES** 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING UTU-16539 6. IF INDIAN, ALLOTTEE OR TRIBE NAME; SUNDRY NOTICES AND REPORTS ON WELLS 7. UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. SUNDANCE UNIT 8. WELL NAME and NUMBER: 1. TYPE OF WELL: OIL WELL GAS WELL OTHER FEDERAL 1-4-9-18 2. NAME OF OPERATOR: 9. API NUMBER: **NEWFIELD PRODUCTION COMPANY** 4304735473 3. ADDRESS OF OPERATOR: PHONE NUMBER 10. FIELD AND POOL, OR WILDCAT: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 435.646.3721 MONUMENT BUTTE 4. LOCATION OF WELL FOOTAGES AT SURFACE: 831 FNL 652 FEL COUNTY: UINTAH OTR/OTR. SECTION. TOWNSHIP. RANGE, MERIDIAN: NENE, 4, T9S, R18E STATE: UT CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE DEEPEN REPERFORATE CURRENT FORMATION ■ NOTICE OF INTENT (Submit in Duplicate) ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL CASING REPAIR NEW CONSTRUCTION Approximate date work will TEMPORARITLY ABANDON CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR CHANGE TUBING PLUG AND ABANDON VENT OR FLAIR X SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSAL (Submit Original Form Only) X CHANGE WELL STATUS PRODUCTION (START/STOP) WATER SHUT-OFF Date of Work Completion; COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE X OTHER: - Injection Conversion 04/07/2008 X CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On 4/8/08 Margo Smith with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 4/14/08. On 4/14/08 the csg was pressured up to 1050 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT21081-07302 API# 43-047-35473

Accepted by the
Utah Division of
Oil, Gas and Mining FOR RECORD ONLY

NAME (PLEASE PRINT) Callie Duncan	TITLE_	Production Clerk
SIGNATURE CALLIE BOSS	DATE_	04/23/2008

(This space for State use only)

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DIV. OF OIL, CAS & MINING

Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test

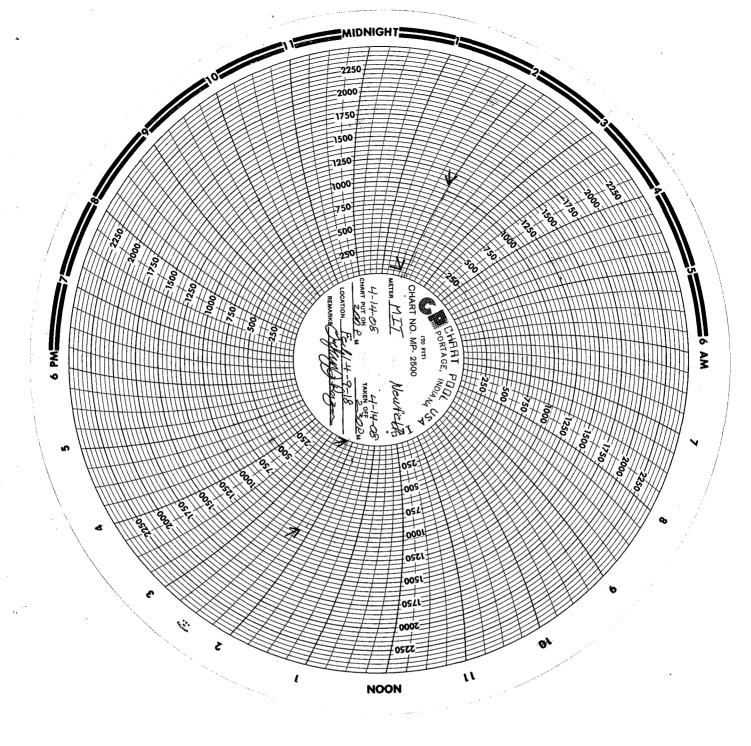
U.S. Environmental Protection Agency Underground Injection Control Program 999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness:			Date:	7/14	108		
Test conducted by: TVC Others present:	fley o	Raze	·		<u> </u>		
Others present:	<u> </u>	***************************************	· · · · · · · · · · · · · · · · · · ·	 			
Well Name: Fell 1-1 Field: MONUMEN Location: NF/NE Sec Operator: New for	17 Butte : 4 T 9 T : cld	√S) R <u>/&</u>			us: AC TA UC		
Last MIT: Maximum Allowable Pressure: PSIG							
Is this a regularly scheduled test? Initial test for permit? Yes No Test after well rework? Yes No Well injecting during test? Yes No If Yes, rate: psig							
MIT DATA TABLE	Test #1		Test #2		Test #3		
TUBING	PRESSURE		_				
Initial Pressure	0	psig		psig		psig	
End of test pressure	0	psig		psig		psig	
CASING / TUBING	ANNULUS		PRESSURE				
0 minutes	1050	psig		psig		psig	
5 minutes	1050	psig		psig		psig	
10 minutes	1050	psig		psig		psig	
15 minutes	1050	psig		psig		psig	
20 minutes	1050	psig		psig		psig	
25 minutes	1050	psig		psig		psig	
30 minutes	1050	psig		psig		psig	
minutes ,		psig		psig		psig	
minutes		psig		psig		psig	
RESULT	[,] Pass	[]Fail	[] Pass	[]Fail	[] Pass []Fail	

Does the annulus pressure build back up after the test? [] Yes [No MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness:	·	



Daily Activity Report

Format For Sundry FEDERAL 1-4-9-18 2/1/2008 To 6/30/2008

4/4/2008 Day: 1

Conversion

Western #1 on 4/3/2008 - MIRU Western #1. RU HO trk & pump 50 BW dn annulus @ 250°F. RD pumping unit & unseat rod pump. Flush tbg & rods W/ 40 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 8 BW and pressure test to 3000 psi. Retrieve rod string & unseat pump. TOH and LD 100 scrapered rods. PU polished rod. Re-flush rods W/ 40 BW. SIFN.

4/5/2008 Day: 2

Conversion

Western #1 on 4/4/2008 - Con't TOH and LD rod string & pump. Flushed rods W/ 20 BW on TOH. ND wellhead & release TA @ 5750'. NU BOP. PU & TIH W/ 3 jts work string to tag fill @ 5960' (19' of fill, 57' of RH). LD work string. TOH & talley production tbg. Flushed tbg twice on TOH to clear wax on ID. LD btm 50 jts tbg and BHA. Broke each connection, clean & inspect pins and apply Liquid O-ring to pins. No sign of scale on rods, pump or tbg. SIFN. **TA hung up in every casing collar on TOH, found spring broke and slip protruding f/ housing**

4/8/2008 Day: 3

Conversion

Western #1 on 4/7/2008 - MU & TIH W/ injection string as follows: new Weatherford 5 1/2" Arrowset 1-X pkr (W/ W.L. re-entry guide & hardened steel slips), new 2 7/8 SN & 130 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbl pad. Drop standing valve. Pressure test tbg to 3000 psi. Held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 70 bbls fresh wtr W/ 5 gals Unichem Alpha 1-33 & 15 gals Techni-hib 767W. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4247', CE @ 4251' & EOT @ 4256'. Land tbg W/ 15,000# tension. NU wellhead. Pressure test annulus to 1400 psi. Held solid for 30 minutes. RDMOSU. Well ready for MIT.

4/18/2008 Day: 4

Conversion

on 4/17/2008 - On 4/8/08 Margo Smith with the EPA was contacted concerning the initial MIT on the above listed well (Fed 1-4-9-18). Permission was given at that time to perform the test on 4/14/08. On 4/14/08 the csg was pressured up to 1050 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT21081-07302 API# 43-047-35473

Pertinent Files: Go to File List



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 1595 Wynkoop Street DENVER, CO 80202-1129 Phone 800-227-8917 http://www.epa.gov/region08

MAY 07 2008

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Guinn District Manager Newfield Production Company Route 3 - Box 3630 Myton, UT 84502 Accepted by the
Utan Division of
Oil, Gas and Mining
FOR RECORD ONLY

RE:

Authority to Commence Injection

Federal No. 1-4-9-18

NE NE Section 4-T9S-R18E

EPA Permit No. UT21081-07302

Uintah County, Utah API No. 43-047-35473

RECEIVED

MAY 13 2008

Dear Mr. Guinn:

Newfield Production Company (Newfield) has satisfactorily fulfilled all the **DIV. OF OIL, GAS & MINING** Environmental Protection Agency's (EPA) **Prior to Commencing Injection** requirements in Permit UT21081-07302, effective November 30, 2007. All Prior to Commencing Injection Requirements, i.e., Part I (Internal) Mechanical Integrity Test, Well Rework Record (EPA Form No. 7520-12), and a pore pressure were reviewed and approved by the EPA April 28, 2008.

Newfield, as of the date of this letter, is authorized to commence injection into Federal No. 1-4-9-18. Until such time that Permittee demonstrates through a Step-Rate Test (SRT) that the Fracture Gradient (FG) is other than 0.710 psi/ft, Federal No. 1-4-9-18 shall be operated at a maximum allowable injection pressure no greater than 1160 psig.

As of this approval, responsibility for Permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Therefore, please direct all monitoring and compliance correspondence to the following address, referencing your well name and UIC Permit number on all correspondence regarding this well:

Mr. Nathan Wiser
Technical Enforcement Program - UIC
U.S. EPA Region 8: Mail Code ENF-UFO
1595 Wynkoop Street
Denver, CO 80202-1129
Phone: 303-312-6211, or 1-800-227-8917 (Ext. 312-6211)

Please be reminded that it is your responsibility to be aware of and to comply with all conditions of Permit UT21001+07302.

If you have any questions in regard to the above action, please contact Margo Smith at 1-800-227-8917 (Ext. 312-6318), or 303-312-6318.

Sincerely,

Stephen S. Tuber

Assistant Regional Administrator

Office Of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee-Ute Indian Tribe:

Curtis Cesspooch, Chairman Irene Cuch, Vice-Chairwoman Frances Poowegup, Councilwoman Ronald Groves, Councilman Steven Cesspooch, Councilman Phillip Chimburas, Councilman

Chester Mills
Superintendent
Uintah & Ouray Indian Agency
U.S. Bureau of Indian Affairs

Eric Sundberg Regulatory Analyst Newfield Production Company Denver, CO Shaun Chapoose Director Land Use Dept. Ute Indian Tribe

Felicia Myore Acting Director Energy & Minerals Dept. Ute Indian Tribe

Gilbert Hunt Assistant Director State of Utah - Natural Resources

Fluid Minerals Engineering Office U.S. Bureau of Land Management Vernal, Utah

STATE OF UTAH

NAME (PLEASE PRINT) Kathy Chapma	n .	Accepted Divides and FOR RECC	d Mini ng	удег			
		gra- 984 - 63 63 8 an	d Mini ng				
12. DESCRIBE PROPOSED OR CO The above reference well UT 2/08/-07	was put on injection at 12:0		details including dates, do	epths, volumes, etc.			
	X CONVERT WELL TYPE	=	MPLETE - DIFFERENT FORM	ATION			
Date of Work Completion:	COMMINGLE PRODUCING FOR	=	OUCTION (START/STOP) AMATION OF WELL SITE	WATER SHUT-OFF OTHER: - Change status put well on injection			
SUBSEOUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME CHANGE WELL STATUS	=	BACK	WATER DISPOSAL			
	CHANGE TUBING	=	AND ABANDON	VENT OR FLAIR			
07/16/2008	CHANGE TO PREVIOUS PLANS	=	ATOR CHANGE	TUBING-REPAIR			
Approximate date work will	CASING REPAIR		CONSTRUCTION	TEMPORARITLY ABANDON			
(Submit in Duplicate)	ALTER CASING	<u>—</u>	TURE TREAT	SIDETRACK TO REPAIR WELL			
X NOTICE OF INTENT	ACIDIZE	DEEP	EN	REPERFORATE CURRENT FORMATION			
TYPE OF SUBMISSION	* *		TYPE OF ACTIO	N			
	PRIATE BOXES TO IN	DICATE NATU	·	REPORT, OR OTHER DATA			
Ontone section, 10 whomir, range	NENE, 4, 195, R18	E		STATE: UT			
OTR/OTR SECTION, TOWNSHIP, RANGE							
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 831 FNL 6	552 FEI		$\alpha_{i} = \alpha_{ij} + 1$	COUNTY: UINTAH			
Route 3 Box 3630	CITY Myton STATI	E UT ZIP 8405	2 435.646.3721	MONUMENT BUTTE			
3. ADDRESS OF OPERATOR:	MANI		PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:			
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COI	MDANIV			9. API NUMBER: 4304735473			
OIL WELL	GAS WELL OT	HER WI		FEDERAL 1-4-9-18			
1 TYPE OF WELL	tal laterals. Use APPLICATION FOR		n for such proposals.	8. WELL NAME and NUMBER:			
	rill new wells, significantly deepen exi			2. UNIT or CA AGREEMENT NAME: SUNDANCE UNIT			
	Y NOTICES AND	REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
SUNDR	DIVISION OF OIL, GAS AND MINING						
SUNDR	DIVISION OF OIL. (GAS AND MINI	NTC	5. LEASE DESIGNATION AND SERIAL NUMBER:			

(This space for State use only)

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AUG 0 5 2003

DIV. OF OIL, GAS & MINING

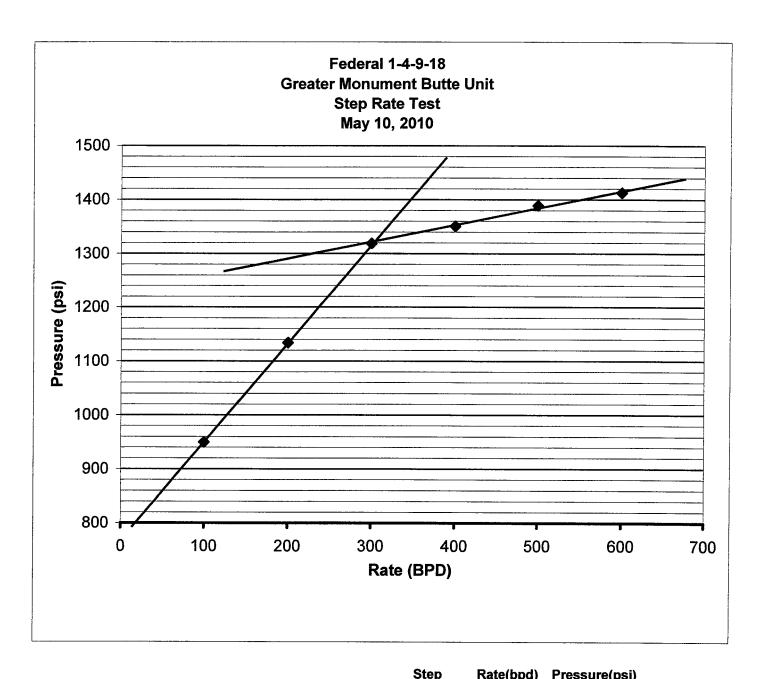
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING USA UTU-16539 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 7. UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged **GMBU** wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 8. WELL NAME and NUMBER: 1. TYPE OF WELL: OIL WELL GAS WELL OTHER FEDERAL 1-4-9-18 2. NAME OF OPERATOR: 9. API NUMBER: NEWFIELD PRODUCTION COMPANY 4304735473 3. ADDRESS OF OPERATOR: PHONE NUMBER 10. FIELD AND POOL, OR WILDCAT: Route 3 Box 3630 STATE UT ZIP 84052 435.646.3721 GREATER MB UNIT CITY Myton 4. LOCATION OF WELL: FOOTAGES AT SURFACE: 831 FNL 652 FEL. COUNTY: UINTAH OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENE, 4, T9S, R18E STATE: UT CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE DEEPEN REPERFORATE CURRENT FORMATION ■ NOTICE OF INTENT (Submit in Duplicate) ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL CASING REPAIR NEW CONSTRUCTION TEMPORARITLY ABANDON Approximate date work will CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR CHANGE TUBING PLUG AND ABANDON VENT OR FLAIR SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSAL (Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/STOP) WATER SHUT-OFF Date of Work Completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE X OTHER: - Step Rate Test 05/10/2010 CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. A step rate test was conducted on the subject well on May 10,2010. Results from the test indicate that the fracture gradient is .748 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1160 psi to 1325 psi. EPA #UT21081-07302 API #43-047-35473 Accepted by the Utah Division of

Oil, Gas and Mining FOR RECORD ONLY

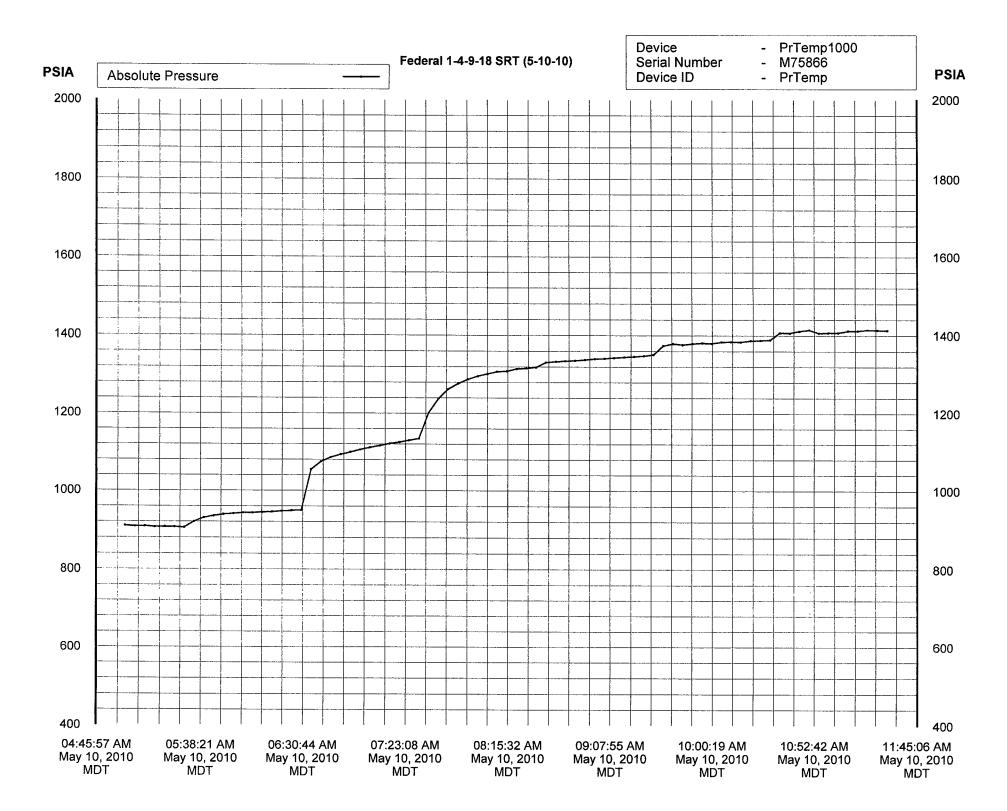
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	TITLE_ Administrative Assistant
SIGNATURE Suce Con More	DATE 05/10/2010

(This space for State use only)

RECEIVED MAY 13 2010 **DIV. OF OIL, GAS & MINING**



			Otep	rate(ppu)	r ressure(psi)
Start Pressure:	905	psi	1	100	950
Instantaneous Shut In Pressure (ISIP):	1355	psi	2	200	1134
Top Perforation:	4296	feet	3	300	1319
Fracture pressure (Pfp):	1325	psi	4	400	1351
FG:	0.748	psi/ft	5	500	1389
		•	6	600	1413



Report Name: Report Date: File Name: PrTemp1000 Data Table

Title:

May 10, 2010 01:55:35 PM MDT
C:\Program Files\PTC® Instruments 2.00\Federal 1-4-9-18 SRT (5-10-10).csv
Federal 1-4-9-18 SRT (5-10-10)
PrTemp1000 - Temperature and Pressure Recorder
REV2C (64K) Device:

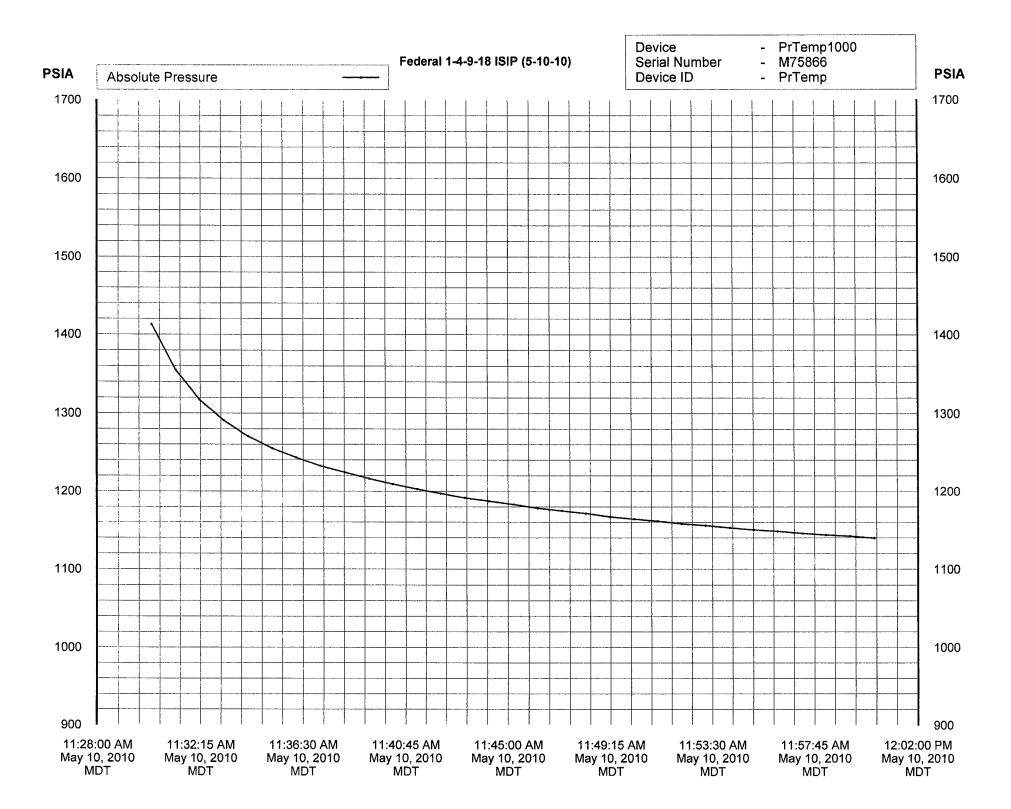
Hardware Revision: M75866 Serial Number: PrTemp Device ID:

May 10, 2010 05:00:01 AM MDT May 10, 2010 11:30:02 AM MDT Data Start Date: Data End Date:

2 Seconds 1 to 79 of 79 May 22, 2009 May 22, 2010 Reading Rate: Readings: Last Calibration Date: Next Calibration Date:

Next Calibration	n Date:	May 22, 2010	
Reading	Date and Time (MDT)	Absolute Pressure	Annotation
1	May 10, 2010 05:00:01 AM	909.600 PSIA	
2	May 10, 2010 05:05:01 AM	908.000 PSIA	
3	May 10, 2010 05:10:01 AM	908.400 PSIA	
4 5	May 10, 2010 05:15:01 AM May 10, 2010 05:20:02 AM	906.800 PSIA 907.200 PSIA	
6	May 10, 2010 05:25:01 AM	906.800 PSIA	
7	May 10, 2010 05:30:02 AM	905.400 PSIA	
8	May 10, 2010 05:35:01 AM	920.200 PSIA	
9	May 10, 2010 05:40:02 AM	930.000 PSIA	
10 11	May 10, 2010 05:45:01 AM May 10, 2010 05:50:01 AM	934.800 PSIA 938.800 PSIA	
12	May 10, 2010 05:55:01 AM	940.600 PSIA	
13	May 10, 2010 06:00:01 AM	942.600 PSIA	
14	May 10, 2010 06:05:02 AM	942.600 PSIA	
15	May 10, 2010 06:10:01 AM	944.200 PSIA	
16	May 10, 2010 06:15:02 AM	945.200 PSIA	
17	May 10, 2010 06:20:01 AM	947.200 PSIA	
18 19	May 10, 2010 06:25:02 AM May 10, 2010 06:30:01 AM	948.400 PSIA 949.800 PSIA	
20	May 10, 2010 06:35:01 AM	1054.400 PSIA	
21	May 10, 2010 06:40:01 AM	1074.600 PSIA	
22	May 10, 2010 06:45:01 AM	1085.600 PSIA	
23	May 10, 2010 06:50:02 AM	1093.400 PSIA	
24 25	May 10, 2010 06:55:01 AM	1099.400 PSIA 1106.000 PSIA	
25 26	May 10, 2010 07:00:02 AM May 10, 2010 07:05:01 AM	1106.000 PSIA 1111.400 PSIA	
27	May 10, 2010 07:10:02 AM	1116.000 PSIA	
28	May 10, 2010 07:15:01 AM	1121.400 PSIA	
29	May 10, 2010 07:20:02 AM	1124.800 PSIA	
30	May 10, 2010 07:25:01 AM	1129.800 PSIA	
31 32	May 10, 2010 07:30:01 AM May 10, 2010 07:35:02 AM	1134.000 PSIA 1201.200 PSIA	
33	May 10, 2010 07:40:01 AM	1238.000 PSIA	
34	May 10, 2010 07:45:02 AM	1262.200 PSIA	
35	May 10, 2010 07:50:01 AM	1276.200 PSIA	
36	May 10, 2010 07:55:02 AM	1287.400 PSIA	
37	May 10, 2010 08:00:01 AM	1295.200 PSIA	
38 39	May 10, 2010 08:05:01 AM May 10, 2010 08:10:01 AM	1301.400 PSIA 1307.200 PSIA	
40	May 10, 2010 08:15:02 AM	1308.600 PSIA	
41	May 10, 2010 08:20:02 AM	1314.400 PSIA	
42	May 10, 2010 08:25:01 AM	1316.200 PSIA	
43	May 10, 2010 08:30:02 AM	1318.600 PSIA	
44 45	May 10, 2010 08:35:01 AM May 10, 2010 08:40:02 AM	1331.000 PSIA 1333.000 PSIA	
46	May 10, 2010 08:45:01 AM	1334.600 PSIA	
47	May 10, 2010 08:50:01 AM	1335.800 PSIA	
48	May 10, 2010 08:55:01 AM	1338.000 PSIA	
49	May 10, 2010 09:00:01 AM	1340.200 PSIA	
50	May 10, 2010 09:05:02 AM	1341.200 PSIA	
51 52	May 10, 2010 09:10:01 AM May 10, 2010 09:15:02 AM	1343.000 PSIA 1344.800 PSIA	
53	May 10, 2010 09:20:01 AM	1346.200 PSIA	
54	May 10, 2010 09:25:02 AM	1348.200 PSIA	
55	May 10, 2010 09:30:01 AM	1351.200 PSIA	
56	May 10, 2010 09:35:01 AM	1373.800 PSIA	
57 58	May 10, 2010 09:40:01 AM	1379.200 PSIA	
58 59	May 10, 2010 09:45:01 AM May 10, 2010 09:50:02 AM	1376.600 PSIA 1379.200 PSIA	
	,,,,,,, .	.5.5.200 1 5//1	

•			
61	May 10, 2010 10:00:02 AM	1380.000	PSIA
62	May 10, 2010 10:05:01 AM	1383.600	PSIA
63	May 10, 2010 10:10:02 AM	1384.200	PSIA
64	May 10, 2010 10:15:01 AM	1383.600	PSIA
65	May 10, 2010 10:20:01 AM	1387.000	PSIA
66	May 10, 2010 10:25:01 AM	1387.600	PSIA
67	May 10, 2010 10:30:01 AM	1389.000	PSIA
68	May 10, 2010 10:35:02 AM	1406.600	PSIA
69	May 10, 2010 10:40:01 AM	1405.800	PSIA
70	May 10, 2010 10:45:02 AM	1410.800	PSIA
71	May 10, 2010 10:50:01 AM	1413.800	PSIA
72	May 10, 2010 10:55:02 AM	1406.000	PSIA
73	May 10, 2010 11:00:01 AM	1406.600	PSIA
74	May 10, 2010 11:05:01 AM	1407.000	PSIA
75	May 10, 2010 11:10:01 AM	1411.400	PSIA
76	May 10, 2010 11:15:03 AM	1411.600	PSIA
77	May 10, 2010 11:20:02 AM	1414.200	PSIA
78	May 10, 2010 11:25:01 AM	1413.400	PSIA
79	May 10, 2010 11:30:02 AM	1412.600	PSIA
7.0			



Report Name: Report Date: PrTemp1000 Data Table

May 10, 2010 01:55:28 PM MDT
C:\Program Files\PTC® Instruments 2.00\Federal 1-4-9-18 ISIP (5-10-10).csv
Federal 1-4-9-18 ISIP (5-10-10)
PrTemp1000 - Temperature and Pressure Recorder File Name: Title:

Life area and it is

Device:

REV2C (64K) M75866 Hardware Revision: Serial Number: PrTemp Device ID:

May 10, 2010 11:30:13 AM MDT May 10, 2010 12:00:13 PM MDT Data Start Date: Data End Date:

2 Seconds 1 to 31 of 31 May 22, 2009 May 22, 2010 Reading Rate: Readings: Last Calibration Date: **Next Calibration Date:**

Reading	Date and Time (MDT)	Absolute Pressure	Annotation
1	May 10, 2010 11:30:13 AM	1412.800 PSIA	
2	May 10, 2010 11:31:13 AM	1354.800 PSIA	
3	May 10, 2010 11:32:13 AM	1317.000 PSIA	
4	May 10, 2010 11:33:13 AM	1290.800 PSIA	
5	May 10, 2010 11:34:13 AM	1270.400 PSIA	
6	May 10, 2010 11:35:13 AM	1255.000 PSIA	
7	May 10, 2010 11:36:13 AM	1243.000 PSIA	
8	May 10, 2010 11:37:13 AM	1232.400 PSIA	
9	May 10, 2010 11:38:14 AM	1224.000 PSIA	
10	May 10, 2010 11:39:13 AM	1216.200 PSIA	
11	May 10, 2010 11:40:13 AM	1209.000 PSIA	
12	May 10, 2010 11:41:14 AM	1202.600 PSIA	
13	May 10, 2010 11:42:13 AM	1197.000 PSIA	
14	May 10, 2010 11:43:13 AM	1191.400 PSIA	
15	May 10, 2010 11:44:13 AM	1187.200 PSIA	
16	May 10, 2010 11:45:13 AM	1183.000 PSIA	
17	May 10, 2010 11:46:13 AM	1178.000 PSIA	
18	May 10, 2010 11:47:13 AM	1174.600 PSIA	
19	May 10, 2010 11:48:13 AM	1171.200 PSIA	
20	May 10, 2010 11:49:13 AM	1167.000 PSIA	
21	May 10, 2010 11:50:13 AM	1164.200 PSIA	
22	May 10, 2010 11:51:13 AM	1161.400 PSIA	
23	May 10, 2010 11:52:13 AM	1158.000 PSIA	
24	May 10, 2010 11:53:13 AM	1155.800 PSIA	
25	May 10, 2010 11:54:14 AM	1153.000 PSIA	
26	May 10, 2010 11:55:13 AM	1150.400 PSIA	
27	May 10, 2010 11:56:13 AM	1148.400 PSIA	
28	May 10, 2010 11:57:14 AM	1145.800 PSIA	
29	May 10, 2010 11:58:13 AM	1143.800 PSIA	
30	May 10, 2010 11:59:13 AM	1142.200 PSIA	
31	May 10, 2010 12:00:13 PM	1139.800 PSIA	

Federal 1-4-9-18 Rate Sheet (5-10-10)

	Time:	5:35	5:40	5:45	5:50	5:55	6:00
Step # 1	Rate:	100.5	100.5	100.5	100.5	100.5	100.4
	Time:	6:05	6:10	6:15	6:20	6:25	6:30
	Rate:	100.4	100.4	100.4	100.4	100.3	100.3
	Time:	6:35	6:40	6:45	6:50	6:55	7:00
Step # 2	Rate	200.4	200.4	200.4	200.3	200.3	200.3
	Time:	7:05	7:10	7:15	7:20	7:25	7:30
	Rate:	200.3	200.2	200.2	200.2	200.2	200.2
		7:35	7:40	7:45	7:50	7:55	8:00
Step # 3	Time:	300.5	300.5	300.5	300.5	300.4	300.4
	Nate.						
	Time:	8:05	8:10	8:15	8:20	8:25	8:30
	Rate:	300.4	300.2	300.2	300.2	300.2	300.2
Step # 4	Time:	8:35	8:40	8:45	8:50	8:55	9:00
Stop	Rate:	400.4	400.4	400.4	400.3	400.3	400.2
		9:05	9:10	9:15	9:20	9:25	9:30
	Time:	400.2	400.2	400.1	400.1	400.1	400.1
	Mater	400.2	100.2				
~ ""	Time:	9:35	9:40	9:45	9:50	9:55	10:00
Step # 5	Rate:	500.5	500.4	500.4	500.4	500.4	500.3
	Time:	10:05	10:10	10:15	10:20	10:25	10:30
					E00.0	E00.0	E00.0
	Rate	500.3	500.3	500.3	500.2	500.2	500.2
	Rate:	500.3		· · · · · · · · · · · · · · · · · · ·		40-44-4	
Step # 6	Rate:	10:35	10:40	10:45 600.3	10:50 600.3	10:55 600.2	11:00 600.2
Step # 6	Rate:	500.3		10:45	10:50	10:55	11:00
Step # 6	Rate:	10:35	10:40	10:45	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30
Step # 6	Rate: Time: Rate:	10:35 600.3	10:40	10:45	10:50	10:55	11:00
Step # 6	Rate: Time: Rate:	10:35 600.3 11:05	10:40 600.3	10:45 600.3 11:15	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30
Step # 6	Rate: Time: Rate:	10:35 600.3 11:05	10:40 600.3	10:45 600.3 11:15	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30
Step # 6	Rate: Time: Rate:	10:35 600.3 11:05	10:40 600.3	10:45 600.3 11:15	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30
Step # 6	Rate: Time: Rate:	10:35 600.3 11:05	10:40 600.3	10:45 600.3 11:15	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30
Step # 6	Rate: Time: Rate: Rate:	10:35 600.3 11:05	10:40 600.3	10:45 600.3 11:15	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30
Step # 6	Rate: Time: Rate: Rate:	10:35 600.3 11:05	10:40 600.3	10:45 600.3 11:15	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30
Step # 6	Rate: Time: Rate: Rate:	10:35 600.3 11:05	10:40 600.3	10:45 600.3 11:15	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30
Step # 6	Rate: Time: Rate: Rate:	10:35 600.3 11:05	10:40 600.3	10:45 600.3 11:15	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30
Step # 6	Rate: Time: Rate: Rate:	10:35 600.3 11:05	10:40 600.3	10:45 600.3 11:15	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30
Step # 6	Rate: Time: Rate: Rate:	10:35 600.3 11:05	10:40 600.3	10:45 600.3 11:15	10:50 600.3 11:20	10:55 600.2 11:25	11:00 600.2 11:30



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

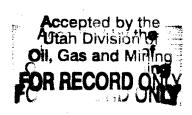
1595 Wynkoop Street
Denver, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

JUN 1 0 2010

Ref: 8P-W-GW

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Michael Guinn
District Manager
Newfield Production Company
Route 3-Box 3630
Myton, UT 84502



RE: Underground Injection Control (UIC)
Minor Permit Modification
Authorization to Continue Injection
EPA UIC Permit UT21081-07302

Well: Federal 1-4-9-18 NENE Sec. 4 T9S-R18E Uintah County, UT API No.: 43-047-35473

Dear Mr. Guinn:

The Environmental Protection Agency Region 8 (EPA) has received Newfield Production Company's (Newfield) May 10, 2010, letter with enclosures requesting an increase in the Maximum Allowable Injection Pressure (MAIP) for the Federal 1-4-9-18 well. Newfield's interpretation of the enclosed Step Rate Test (SRT) data concluded the fracture gradient to be 0.748 psi/ft. However, EPA's analysis of the data determined the fracture gradient to be 0.747 psi/ft., resulting in a calculated MAIP of 1,320 psig. Therefore, the MAIP for UIC Permit UT21081-07302 is hereby increased to 1,320 psig from the 1,160 psig previously authorized.

As of the date of this letter, EPA authorizes continued injection into the Federal 1-4-9-18 well under the terms and conditions of UIC Permit UT21081-07302 at the MAIP of 1,320 psig.

You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a SRT that measures the fracture parting pressure and determines the fracture gradient at the injection depth and location. A current copy of EPA guidelines for running and interpreting a SRT will be sent upon request.

RECEIVED
JUN 1 7 2010

As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA Region 8 UIC Technical Enforcement Program Office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing the well name and UIC Permit number on all correspondence regarding this well:

US EPA, Region 8 Attn: Nathan Wiser MC: ENF-UFO 1595 Wynkoop Street Denver, CO 80202

For questions regarding notification, testing, monitoring, reporting or other permit requirements, Nathan Wiser of the UIC Technical Enforcement Program may be reached by calling 800-227-8917 (ext. 312-6211). Please be reminded that it is your responsibility to be aware of and to comply with all conditions of your Permit.

If you have any questions regarding this approval, please call Tom Aalto at 303-312-6949 or 800-227-8917 (ext. 312-6949).

Stephen S. Tuber

Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Curtis Cesspooch, Chairman Ronald Groves, Councilman Irene Cuch, Vice-Chairwoman Phillip Chimburas, Councilman Frances Poowegup, Councilwoman

Daniel Picard BIA - Uintah & Ouray Indian Agency

Ferron Secakuku Director, Natural Resources Ute Indian Tribe Larry Love Director of Energy & Minerals Dept. Ute Indian Tribe

Gil Hunt Associate Director Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office BLM - Vernal Office

Eric Sundberg, Regulatory Analyst Newfield Production Company

STATE OF UTAH

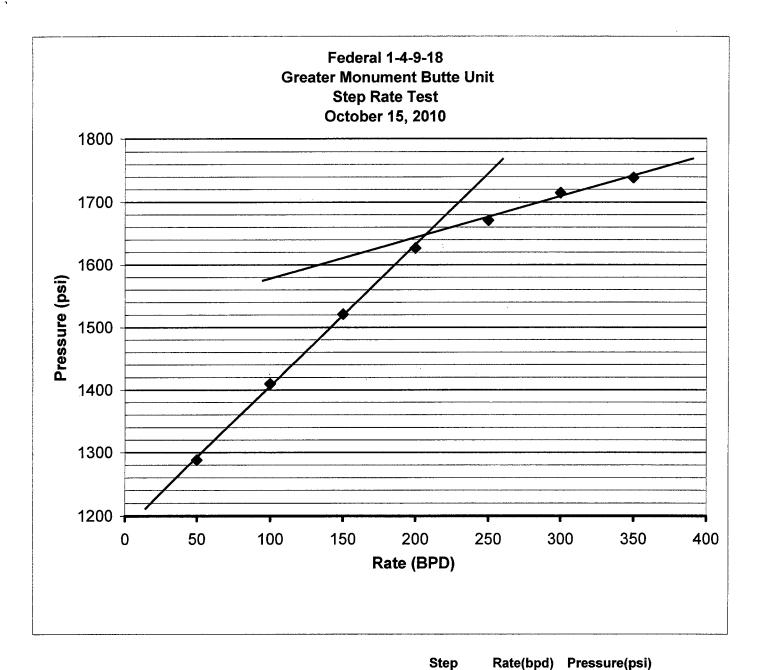
I D	5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-16539			
SUNDRY N	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
Do not use this form for proposals to drill new wells, or to drill horizontal later	7. UNIT OF CA AGREEMENT NAME: GMBU			
1. TYPE OF WELL: OIL WELL	GAS WELL OTHER			8. WELL NAME and NUMBER: FEDERAL 1-4-9-18
2. NAME OF OPERATOR:				9. API NUMBER;
NEWFIELD PRODUCTION COMPAN	Y			4304735473
3. ADDRESS OF OPERATOR:			PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:
Route 3 Box 3630 4. LOCATION OF WELL:	CITY Myton STATE UT	ZIP 84052	435.646.3721	GREATER MB UNIT
FOOTAGES AT SURFACE: 831 FNL 652 FE	EL			COUNTY: UINTAH
OTR/OTR. SECTION. TOWNSHIP. RANGE, MERI	DIAN: NENE, 4, T9S, R18E			STATE: UT
n. CHECK APPROPRIA	ATE BOXES TO INDICATE	E NATURE O	F NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION		TYF	PE OF ACTION	
	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE TR	REAT	SIDETRACK TO REPAIR WELL
Approximate date work will	CASING REPAIR	NEW CONSTR	UCTION	TEMPORARITLY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CH	HANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND AE		VENT OR FLAIR
X SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK	SANDON	WATER DISPOSAL
SUBSEOUENT REPORT (Submit Original Form Only)		=		=
Date of Work Completion:	CHANGE WELL STATUS	_	(START/STOP)	WATER SHUT-OFF
<u> </u>	COMMINGLE PRODUCING FORMATIONS	RECLAMATIO	ON OF WELL SITE	OTHER: - Step Rate Test
10/15/2010	CONVERT WELL TYPE	RECOMPLETE	E - DIFFERENT FORMATION	
•	on the subject well on October	15,2010. Resu	Its from the test indi	
EPA: UT21081-07302 API: 4	3-047-35473			
			Utah Oll, Ga	nated by the Division of and Mining
			FOH H	ECORD ONLY
NAME (PLEASE PRINT) Lucy Chavez-Naupo	oto	Т	TLE_Administrative As	sistant
SIGNATURE Ruey CO	sey - 4/2 80	According to the Accord	ATE 10/25/2010	

(This space for State use only)

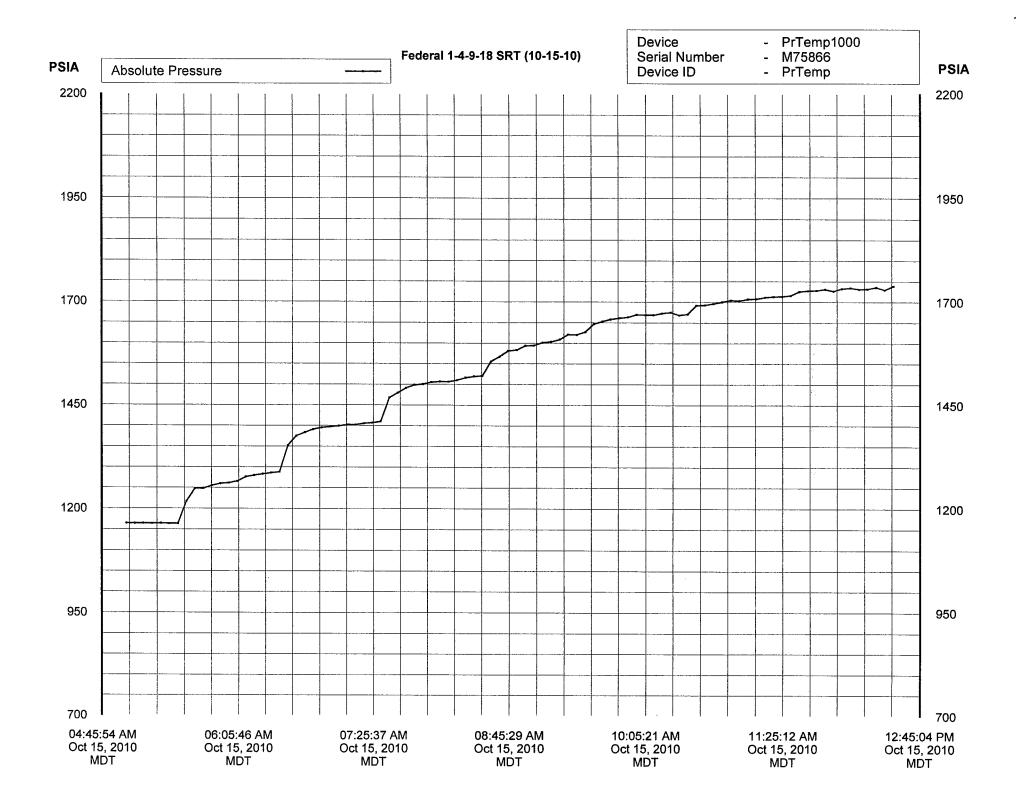
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Step Rate Test (SRT) Analysis

Date: 10/19/2010	Operator:	Newfield Pro	oduction Co	ompany	
	Well:	Well: Federal 1-4-9			
	UT21081-07	302	· · · · · · · · · · · · · · · · · · ·		
Enter th	he following data:				
	Specific Gre	cavity (sg) of injectate =	1.015	g/cc	
	Depth to	top perforation (D) = $\overline{}$	4296	feet	429
Top of permitted injection zone	depth (blank=use top perfor	ration to calculate fg) =		feet	
Estimated Fe	ormation Parting Pressure (P	Pfp) from SRT chart =	1645	psi	
Is	nstantaneous Shut In Pressur	re (ISIP) from SRT =	1669	psi	1645
Bottom Hole Parting	Pressure (Pbhp) from downh	oole pressure recorder =		psi	no downho
<u> Part One - Calculatio</u>	n of Fracture Grace		0.822	psi/ft.	
<u> Part One - Calculatio</u>	Calculated Fract	ture Gradient =			
Part One - Calculation D = depth used = 4296	Calculated Fract				le) = 1669
D = depth used = 4296	Calculated Fract	ture Gradient = where: fg = Pbhp / D (Note: this formula n bhp used = 3533	ses the downhole recorded botto	m hole parting pressure if availab	
D = depth used = 4296	Calculated Fract Pi Bottom Hole Parting I	ture Gradient = where: fg = Pbhp / D (Note: this formula n bhp used = 3533	ses the downhole recorded botto	m bole parting pressure if availab	
D = depth used = 4296	Calculated Fract Pi Bottom Hole Parting I	ture Gradient = where: fg = Pbhp / D (Note: this formula n bhp used = 3533 Pressure (Pbhp) = ssure (Pbhp) = Formation Fracture Pressure (ses the downhole recorded botto	m bole parting pressure if availab	
D = depth used = 4296	Calculated Fract Pb Bottom Hole Parting I to calculate Bottom Hole Parting Pres	ture Gradient = where: fg = Pbhp / D (Note: this formula n bhp used = 3533 Pressure (Pbhp) = ssure (Pbhp) = Formation Fracture Pressure (ses the downhole recorded botto	m bole parting pressure if availab	,
D = depth used = 4296	Calculated Fract Pb Bottom Hole Parting I to calculate Bottom Hole Parting Pres (Uses lesser of ISIP or Pfp) Val	ture Gradient = where: fg = Phip / D (Note: this formula in thip used = 3533 Pressure (Phip) = ssure (Phip) = Formation Fracture Pressure (I the used = 1645	3533 SSIP or Pfp) + (0.433 * SG	m hole parting pressure if availab psi *D)	,
D = depth used = 4296 Calculated	Calculated Fract Pb Bottom Hole Parting I to calculate Bottom Hole Parting Pre (Uses lesser of ISIP or Psp) Val	ture Gradient = where: fg = Phhp / D (Note: this formula in thip used = 3533 Pressure (Phhp) = ssure (Phhp) = Formation Fracture Pressure (1 the used = 1645 Llowable Injection	3533 SSIP or Pfp) + (0.433 * SG	m hole parting pressure if availab psi *D)	le) = 1669 3533.07



1164	psi	1	50	1288	
1669	psi	2	100	1410	
4296	feet	3	150	1521	
1645	psi	4	200	1627	
0.822	psi/ft	5	250	1671	
	-	6	300	1715	
		7	350	1739	
	1669 4296 1645	1164 psi 1669 psi 4296 feet 1645 psi 0.822 psi/ft	1669 psi 2 4296 feet 3 1645 psi 4 0.822 psi/ft 5	1669 psi 2 100 4296 feet 3 150 1645 psi 4 200 0.822 psi/ft 5 250 6 300	1164 psi 1 50 1288 1669 psi 2 100 1410 4296 feet 3 150 1521 1645 psi 4 200 1627 0.822 psi/ft 5 250 1671 6 300 1715



Report Name: Report Date: File Name: PrTemp1000 Data Table

Oct 15, 2010 03:31:39 PM MDT C:\Program Files\PTC® Instruments 2.00\Federal 1-4-9-18 SRT (10-15-10).csv Title:

Federal 1-4-9-18 SRT (10-15-10)
PrTemp1000 - Temperature and Pressure Recorder
REV2C (64K)
M75866 Device:

Hardware Revision: Serial Number: Device ID: PrTemp

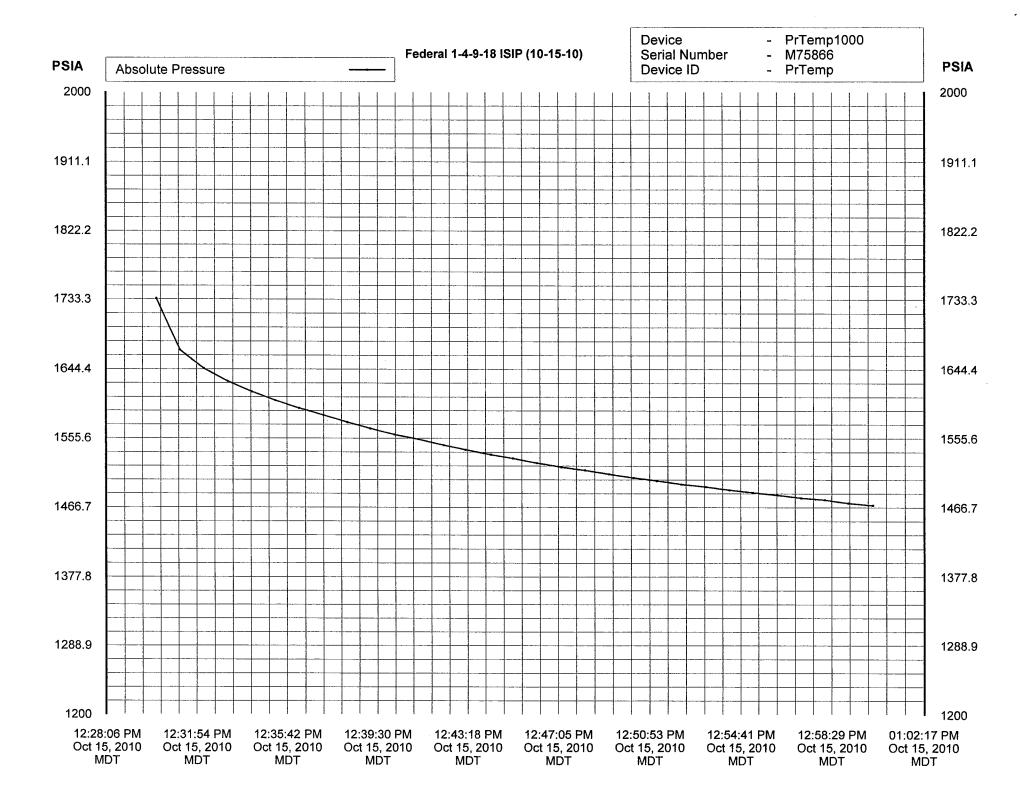
Data Start Date: Oct 15, 2010 04:59:59 AM MDT Oct 15, 2010 12:30:00 PM MDT

Data End Date:
Reading Rate:
Readings:
Last Calibration Date: 2 Seconds 1 to 91 of 91 May 22, 2009 **Next Calibration Date:** May 22, 2010

Page	Next Calibration Date:		May 22, 2010	
2 Oct 15, 2010 05:05:00 AM 1164.200 PSIA Oct 15, 2010 05:10:00 AM 1164.600 PSIA Oct 15, 2010 05:20:00 AM 1164.600 PSIA Oct 15, 2010 05:20:50 AM 1164.600 PSIA Oct 15, 2010 05:20:50 AM 1163.800 PSIA Oct 15, 2010 05:20:55 AM 1163.800 PSIA Oct 15, 2010 05:20:55 AM 1163.800 PSIA Oct 15, 2010 05:20:55 AM 1163.800 PSIA Oct 15, 2010 05:40:50 AM 1216.400 PSIA Oct 15, 2010 05:40:50 AM 1216.400 PSIA Oct 15, 2010 05:40:50 AM 1248.000 PSIA Oct 15, 2010 05:40:59 AM 1248.000 PSIA Oct 15, 2010 05:40:59 AM 1248.000 PSIA Oct 15, 2010 05:40:59 AM 1248.200 PSIA Oct 15, 2010 05:40:59 AM 1259.600 PSIA Oct 15, 2010 05:59:59 AM 1259.600 PSIA Oct 15, 2010 05:59:59 AM 1259.600 PSIA Oct 15, 2010 06:00:50 AM 1265.400 PSIA Oct 15, 2010 06:00:50 AM 1265.400 PSIA Oct 15, 2010 06:00:50 AM 1279.800 PSIA Oct 15, 2010 06:24:59 AM 1279.800 PSIA Oct 15, 2010 06:24:59 AM 1279.800 PSIA Oct 15, 2010 06:25:50 AM 1279.800 PSIA Oct 15, 2010 06:35:00 AM 1361.800 PSIA Oct 15, 2010 06:35:00 AM 1375.000 PSIA Oct 15, 2010 06:45:59 AM 1402.000 PSIA Oct 15, 2010 07:00:59 AM 1402.000 PSIA Oct 15, 2010 07:00:59 AM 1402.000 PSIA Oct 15, 2010 07:00:59 AM 1402.000 PSIA Oct 15, 2010 07:45:50 AM 1505.000 PSIA Oct 15, 2010 07:45:50 AM 1505.000 PSIA Oct 15, 2010 07:	Reading	Date and Time (MDT)	Absolute Pressure	Annotation
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C1	Oct 15, 2010 10:00:03 AM	1669.200 PSI	^
61 62	Oct 15, 2010 10:00:03 AM Oct 15, 2010 10:05:15 AM	1668.600 PSI	
63		1668.400 PSI	
	Oct 15, 2010 10:10:00 AM		
64	Oct 15, 2010 10:15:00 AM	1672.600 PSI	
65	Oct 15, 2010 10:20:00 AM	1674.800 PSI	
66	Oct 15, 2010 10:25:00 AM	1667.800 PSI	
67	Oct 15, 2010 10:30:00 AM	1670.600 PSI	
68	Oct 15, 2010 10:35:00 AM	1691.800 PSI	
69	Oct 15, 2010 10:40:00 AM	1692.600 PSI	
70	Oct 15, 2010 10:45:00 AM	1696.200 PSI	
71	Oct 15, 2010 10:50:00 AM	1700.200 PSI	
72	Oct 15, 2010 10:55:00 AM	1704.200 PSI	A
73	Oct 15, 2010 11:00:00 AM	1703.000 PSI	A
74	Oct 15, 2010 11:05:00 AM	1706.800 PSI	A
75	Oct 15, 2010 11:10:00 AM	1707.600 PSI	Ą
76	Oct 15, 2010 11:15:00 AM	1711.400 PSI	^
70	OCC 15, 2010 11.10.00 MW	17 11.400 F.31	n
77	Oct 15, 2010 11:20:00 AM	1711.400 PSI	
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77	Oct 15, 2010 11:20:00 AM	1712.600 PSI 1713.400 PSI	A A
77 78	Oct 15, 2010 11:20:00 AM Oct 15, 2010 11:25:00 AM	1712.600 PSI 1713.400 PSI 1715.400 PSI	A A A
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77 78 79 80 81	Oct 15, 2010 11:20:00 AM Oct 15, 2010 11:25:00 AM Oct 15, 2010 11:30:00 AM Oct 15, 2010 11:35:00 AM Oct 15, 2010 11:40:00 AM	1712.600 PSI 1713.400 PSI 1715.400 PSI	A A A A
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77 78 79 80 81 82 83 84	Oct 15, 2010 11:20:00 AM Oct 15, 2010 11:25:00 AM Oct 15, 2010 11:30:00 AM Oct 15, 2010 11:35:00 AM Oct 15, 2010 11:40:00 AM Oct 15, 2010 11:45:00 AM Oct 15, 2010 11:50:00 AM Oct 15, 2010 11:55:00 AM	1712.600 PSI 1713.400 PSI 1715.400 PSI 1725.200 PSI 1727.400 PSI 1728.000 PSI 1730.800 PSI 1726.600 PSI	A A A A A A
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77 78 79 80 81 82 83 84 85 86	Oct 15, 2010 11:20:00 AM Oct 15, 2010 11:25:00 AM Oct 15, 2010 11:30:00 AM Oct 15, 2010 11:35:00 AM Oct 15, 2010 11:40:00 AM Oct 15, 2010 11:45:00 AM Oct 15, 2010 11:50:00 AM Oct 15, 2010 11:50:00 AM Oct 15, 2010 11:55:00 AM Oct 15, 2010 12:00:00 PM Oct 15, 2010 12:05:00 PM	1712.600 PSI 1713.400 PSI 1715.400 PSI 1725.200 PSI 1727.400 PSI 1728.000 PSI 1730.800 PSI 1726.600 PSI 1732.600 PSI 1734.400 PSI	A A A A A A A A A A A A A A A A
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Report Name: Report Date: File Name:

Title:

Device:

Hardware Revision: Serial Number: Device ID:

Data Start Date: Data End Date: Reading Rate: Readings:

Last Calibration Date: **Next Calibration Date:**

PrTemp1000 Data Table
Oct 15, 2010 03:31:30 PM MDT
C:\Program Files\PTC® Instruments 2.00\Federal 1-4-9-18 ISIP (10-15-10).csv
Federal 1-4-9-18 ISIP (10-15-10)
PrTemp1000 - Temperature and Pressure Recorder

REV2C (64K) M75866

PrTemp
Oct 15, 2010 12:30:12 PM MDT
Oct 15, 2010 01:00:13 PM MDT
2 Seconds

1 to 31 of 31 May 22, 2009 May 22, 2010

Reading	Date and Time (MDT)	Absolute Pressure	Annotation
1	Oct 15, 2010 12:30:12 PM	1734.400 PSIA	
2	Oct 15, 2010 12:31:12 PM	1668.800 PSIA	
3	Oct 15, 2010 12:32:12 PM	1645.200 PSIA	
4	Oct 15, 2010 12:33:12 PM	1628.800 PSIA	
5	Oct 15, 2010 12:34:12 PM	1615.600 PSIA	
6	Oct 15, 2010 12:35:12 PM	1604.400 PSIA	
7	Oct 15, 2010 12:36:12 PM	1594.400 PSIA	
8	Oct 15, 2010 12:37:13 PM	1585.200 PSIA	
9	Oct 15, 2010 12:38:13 PM	1576.200 PSIA	
10	Oct 15, 2010 12:39:11 PM	1568.000 PSIA	
11	Oct 15, 2010 12:40:13 PM	1560.200 PSIA	
12	Oct 15, 2010 12:41:13 PM	1554.200 PSIA	
13	Oct 15, 2010 12:42:17 PM	1546.600 PSIA	
14	Oct 15, 2010 12:43:12 PM	1540.600 PSIA	
15	Oct 15, 2010 12:44:16 PM	1534.400 PSIA	
16	Oct 15, 2010 12:45:12 PM	1529.600 PSIA	
17	Oct 15, 2010 12:46:12 PM	1523.800 PSIA	
18	Oct 15, 2010 12:47:13 PM	1518.400 PSIA	
19	Oct 15, 2010 12:48:12 PM	1514.400 PSIA	
20	Oct 15, 2010 12:49:12 PM	1509.400 PSIA	
21	Oct 15, 2010 12:50:13 PM	1504.600 PSIA	
22	Oct 15, 2010 12:51:12 PM	1500.800 PSIA	
23	Oct 15, 2010 12:52:12 PM	1496.400 PSIA	
24	Oct 15, 2010 12:53:13 PM	1493.200 PSIA	
25	Oct 15, 2010 12:54:13 PM	1489.000 PSIA	
26	Oct 15, 2010 12:55:12 PM	1485.600 PSIA	
27	Oct 15, 2010 12:56:13 PM	1482.600 PSIA	
28	Oct 15, 2010 12:57:13 PM	1478.800 PSIA	
29	Oct 15, 2010 12:58:12 PM	1476.400 PSIA	
30	Oct 15, 2010 12:59:11 PM	1472.200 PSIA	
31	Oct 15, 2010 01:00:13 PM	1469.400 PSIA	

Federal 1-4-9-18 Rate Sheet (10-15-10)

	Time:	5:35	5:40	5:45	5:50	5:55	6:00
Step # 1	Rate:	50.5	50.5	50.4	50.4	50.4	50.4
	1,000						
	Time:	6:05	6:10	6:15	6:20	6:25	6:30
	Rate:	50.4	50.4	50.4	50.3	50.3	50.3
Step # 2	Time:	6:35	6:40	6:45	6:50	6:55	7:00
Step " 2	Rate:	100.4	100.4	100.4	100.4	100.3	100.3
	1 0 to 12 0 18 2/ 1 to 2/ 1 to 2						
	Time:	7:05	7:10	7:15	7:20	7:25	7:30
	Rate	100.3	100.2	100.2	100.2	100.2	100.2
	Time:	7:35	7:40	7:45	7:50	7:55	8:00
Step #3	Rate:	150.6	150.6	150.6	150.6	150.5	150.5
	· · · · · ·		100.0		100.0	100.0	100.0
	Time:	8:05	8:10	8:15	8:20	8:25	8:30
	Rate:	150.5	150.4	150.4	150.4	150.3	150.3
						_	
Step # 4	Time	8:35	8:40	8:45	8:50	8:55	9:00
экр # 4	Rate:	200.4	200.4	200.4	200.3	200.3	200.3
	Time:	9:05	9:10	9:15	9:20	9:25	9:30
	Rate:	200.3	200.2	200.2	200.2	200.1	200.1
	Time	9:35	9:40	9:45	9:50	9:55	10:00
Step # 5	Rate:	250.5	250.5	250.5	250.4	250.3	250.3
	Nate.				200.4	200.0	200.0
	Time:	10:05	10:10	10:15	10:20	10:25	10:30
	Rate:	250.3	250.3	250.3	250.2	250.2	250.2
							· · · · · · · · · · · · · · · · · · ·
Step # 6	Time:	10:35	10:40	10:45	10:50	10:55	11:00
Sup " o	Rate:	300.4	300.4	300.4	300.4	300.3	300.3
	Time:	11:05	11:10	11:15	11:20	11:25	11:30
	Rate	300.3	300.3	300.2	300.2	300.2	300.1
	Time:	11:35	11:40	11:45	11:50	11:55	12:00
Step # 7	Rate:	350.6	350.6	350.6	350.5	350.5	350.5
	Time:	12:05	12:10	12:15	12:20	12:25	12:30
	Rate:	350.5	350.4	350.4	350.4	350.4	350.3
							

Sundry Number: 35514 API Well Number: 43047354730000

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI	·	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-16539
SUNDR	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
	posals to drill new wells, significantly de reenter plugged wells, or to drill horizont n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well			8. WELL NAME and NUMBER: FEDERAL 1-4-9-18
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		9. API NUMBER: 43047354730000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT		PHONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: 8 MILE FLAT NORTH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0831 FNL 0652 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 4 Township: 09.0S Range: 18.0E Meridia	n: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN [FRACTURE TREAT	NEW CONSTRUCTION
3/11/2013	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:		7	
	☐ REPERFORATE CURRENT FORMATION ☐	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
DRILLING REPORT	L TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER: 5 YR MIT
5 year MIT on the pressured up to 120 loss. The well was was 890 psig duri	completed operations. Clearly show all above listed well. On 03/11/205 psig and charted for 30 mis not injecting during the test. Ing the test. There was not an to witness the test. EPA# UT	2013 the casing was nutes with no pressure The tubing pressure EPA representative 22197-07302	Accepted by the
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBE 435 646-4874	R TITLE Water Services Technician	
SIGNATURE N/A		DATE 3/12/2013	

Sundry Number: 35514 API Well Number: 43047354730000

Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program

999 18th Street, Suite 500 Denver, CO 80202-2466

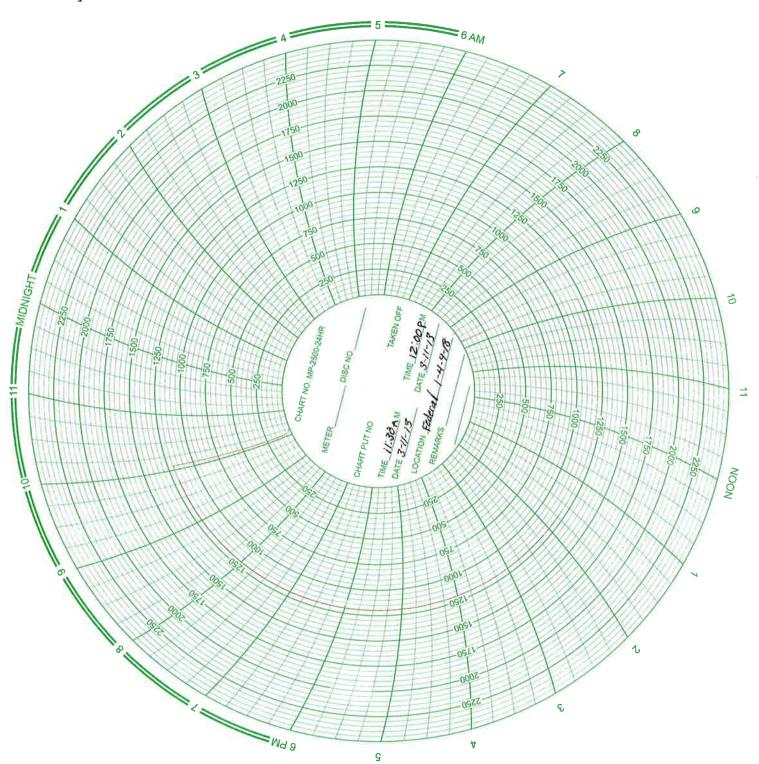
EPA Witness:				Date: _ <u>3</u>	111	120	13	
Test conducted by: 5han		rp\						
Others present:					-		— -673°	•3
Well Name: Federal 1-4	1-9-18		Type:	ER SWD	Statu	s: AC	C TA UC	
Field: Greater manune		× × ×	-) p • .					
Location: NE /NE Sec	<u>4 T9S</u> N	/ S R 18	_E/V	V County:_L	intah		_State:_vt	
Operator: Shannon L	azenby							
Last MIT:/	/ Maxin	um Allowa	able Pi	essure:	1160		PSIG	
7 . 1 is a survey lamba mahadaslar	1+an+0 [3/13	Jog [1 No	9				
Is this a regularly scheduled Initial test for permit?		res [X						
Test after well rework?	[] Y	Yes [່×	J No					
Well injecting during test?		7es [Ⅹ] No	If Yes, 1	rate:		bp	d
Pre-test casing/tubing annulu		-/ 9	92	nei	œ.			
Pre-test casing/tubing annulu	is pressure: 7520	15 / 0	10	psi	g			
MIT DATA TABLE	Test #1		Test	#2			Test #3	
TUBING	PRESSURE							
Initial Pressure		psig			psig			psig
End of test pressure	890	psig			psig			psig
CASING / TUBING	ANNULUS		PRE	SSURE				
0 minutes	1205	psig			psig			psig
5 minutes	1205	psig			psig		2	psig
10 minutes	1205	psig			psig			psig
15 minutes	1205	psig		- 11 - 3	psig			psig
20 minutes	1205	psig		- IP Kee	psig			psig
25 minutes	1205	psig			psig			psig
30 minutes	1205	psig			psig			psig
minutes	, , , , ,	psig			psig			psig
minutes		psig			psig			psig
RESULT	N Pass	[]Fail		Pass	[]Fail		Pass]Fail

Does the annulus pressure build back up after the test? [] Yes [×] No MECHANICAL INTEGRITY PRESSURE TEST

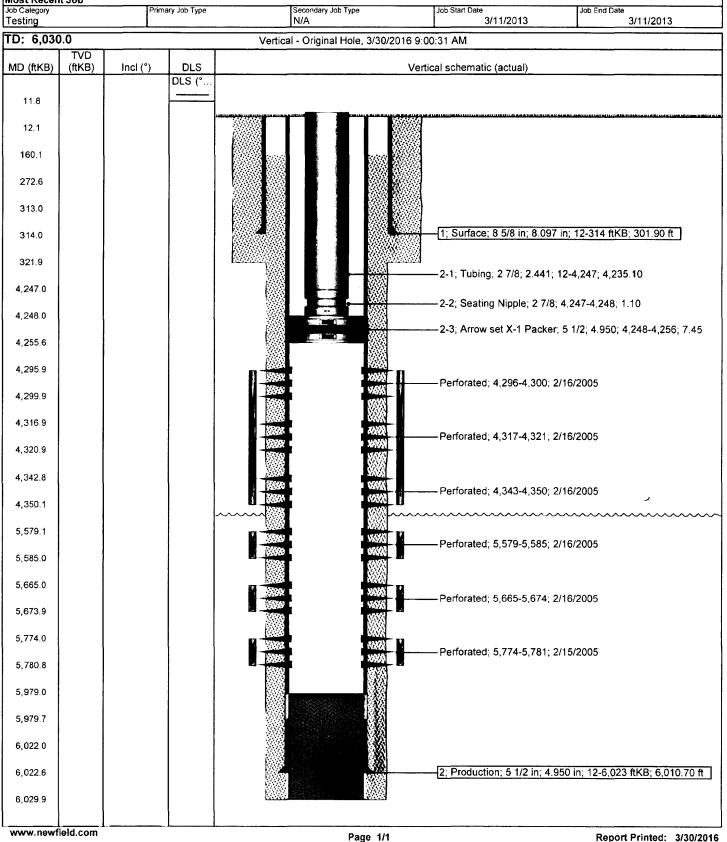
Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness:	
Signature of withess.	

Sundry Number: 35514 API Well Number: 43047354730000



NEWFIELD Schematic Well Name: Federal 1-4-9-18 Surface Legal Location State/Province Field Name 04-9S-18E GMBU CTB11 43047354730000 500150849 Utah Uintah On Production Date Total Depth All (TVD) (ftKB) Spud Date Rig Release Date Original KB Elevation (ft) Ground Elevation (ft) PBTD (All) (ftKB) 1/21/2005 2/3/2005 2/22/2005 4,852 4,840 Original Hole - 5,979.1 Most Recent Job rimary Job Type Secondary Job Type Job End Date Testing 3/11/2013





Newfield Wellbore Diagram Data Federal 1-4-9-18

Surface Legal Location 04-9S-18E					API/UWI 43047354730000		Lease		
County Uintah		State/Province Utah			Basin		Field Name GMBU CTB11		
Well Start Date		Spud Date			Final Rig Release Date	2005	On Production Date		
1/21/2005 Original KB Elevation (ft) Ground Elevation ((ft)	1/21/2005 Total Depth (ftKB)		2/3/2 Total Depth All (TVD) (ftKB	2005	2/22/2005 PBTD (All) (fKB)			
	4,840		·	6,030.0			Original Hole - 5,97	9.1	
Casing Strings				00 (**)					
Csg Des Surface		Run D 1/22/2005	ate	OD (in) 8 5/8	ID (in) 8.097	Wt/Len (lb/ft) 24.00	Grade J-55	Set Depth (ftKB)	
Production		2/4/2005		5 1/2	4.950	15.50		6,02	
Cement						<u> </u>			
String: Surface, 314ftKB 1/24/20	005	· · · · · · · · · · · · · · · · · · ·							
Cementing Company					Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	
BJ Services Company Fluid Description					12.0 Fluid Type	322.0 Amount (sacks)	Class	Estimated Top (ftKB)	
Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield			Lead	160	G	12			
String: Production, 6,023ftKB 2/	/4/2005	5					F		
Dementing Company BJ Services Company					Top Depth (ffKB) 160.0	Bottom Depth (ffKB) 6,030.0	Full Return?	Vol Cement Ret (bbl)	
Fluid Description	241- /-		4 -1-(11	-1 . 4/0# -/- -	Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)	
Premlite II w/ 10% gel + 3 % KCL, Cello Flake	3# S /S	3K USE + 2F	F SK/KOISE	eal + 1/2#5/SK	Lead	400	PL II	160	
Fluid Description			- ON		Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)	
50/50 poz W/ 2% Gel + 3% KCL, . @ 14.4 ppg W/ 1.24 YLD	5%EC	1,1/4# sk C	.F. 2% ge	i, 3% SM mixed	Tail	450	50/50 Poz	3,000	
Tubing Strings Tubing Description					Run Date		Set Depth (ftKB)		
Tubing						2008	4,255		
Item Des Tubing	Jts 130	OD (in) 2 7/8	ID (in) 2.441	Wt (lb/ft) 6,40	Grade	Len (ft) 4,235.10	Top (ftKB) 12.0	8tm (ftKB) 4,247	
Seating Nipple		2 7/8	2,	0, 10	0 00	1.10	4,247.1	4,248	
Arrow set X-1 Packer	1	5 1/2	4.950			7.45	4,248.2	4,255	
Rod Strings								<u> </u>	
Rod Description					Run Date		Set Depth (ftKB)		
Item Des	Jts	OD (i	n)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
		· 	1						
Perforation Intervals Stage# Zone		Top (ft)	KB) I	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (*)	Nom Hole Día (in)	Date	
4 GB6, Original Hole			4,296	4,300	4	90	ACMITICE DIA (III)	2/16/2005	
4 GB6, Original Hole)		4,317	4,321	4	90		2/16/2005	
4 GB6. Original Hole			4,343	4,350	4	90		2/16/2005	
3 CPLS, Original Hole)		5,579	5, 5 85	4	90	!	2/16/2005	
2 CP2, Original Hole			5,665	5,674	4	90		2/16/2005	
1 CP4, Original Hole Stimulations & Treatments		· 	5,774	5,781	4	90		2/15/2005	
Stage# SIP (psi)		Frac Gradie	nt (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Voi Recov (bbl)	
1	1,600		0.71	24.9	1,570			(=-/	
	1,830		0.76	24.9	2,010				
l l	2,100		0.81	24.9	2,115				
	2,620		1.04	24.8	2,585			L	
Proppant Total Prop Vol Pu	umped 1								
Stage# (lb)		Droppost D	ulk cand	24771	Total Add	d Amount	···		
2	- 1	Proppant Bulk sand 24771 Proppant Bulk sand 35690							
	1	Proppant B							
3 l									
3 4		Proppant B	ulk sand	63289					